

## Introduction

4

uniform in their Operation. upon <sup>the</sup> whole then I embrace the Dogmatic plan of teaching Physic, & shall deliver these Lectures in this way only. But I shall always combine Experience & Reasoning together.

But some will tell you if all Physicians practise a like however different their Theories may be, & hence the little Importance of Theory or Reasoning in Physic! But I deny this Fact, for altho in Consultation men may agree yet a man who thinks for himself will in his private practice judge for himself also. the Practice of different ages is <sup>very</sup> widely different, & has always



1a) These pictures relate only to the  
Author's *Précis de la Médecine*

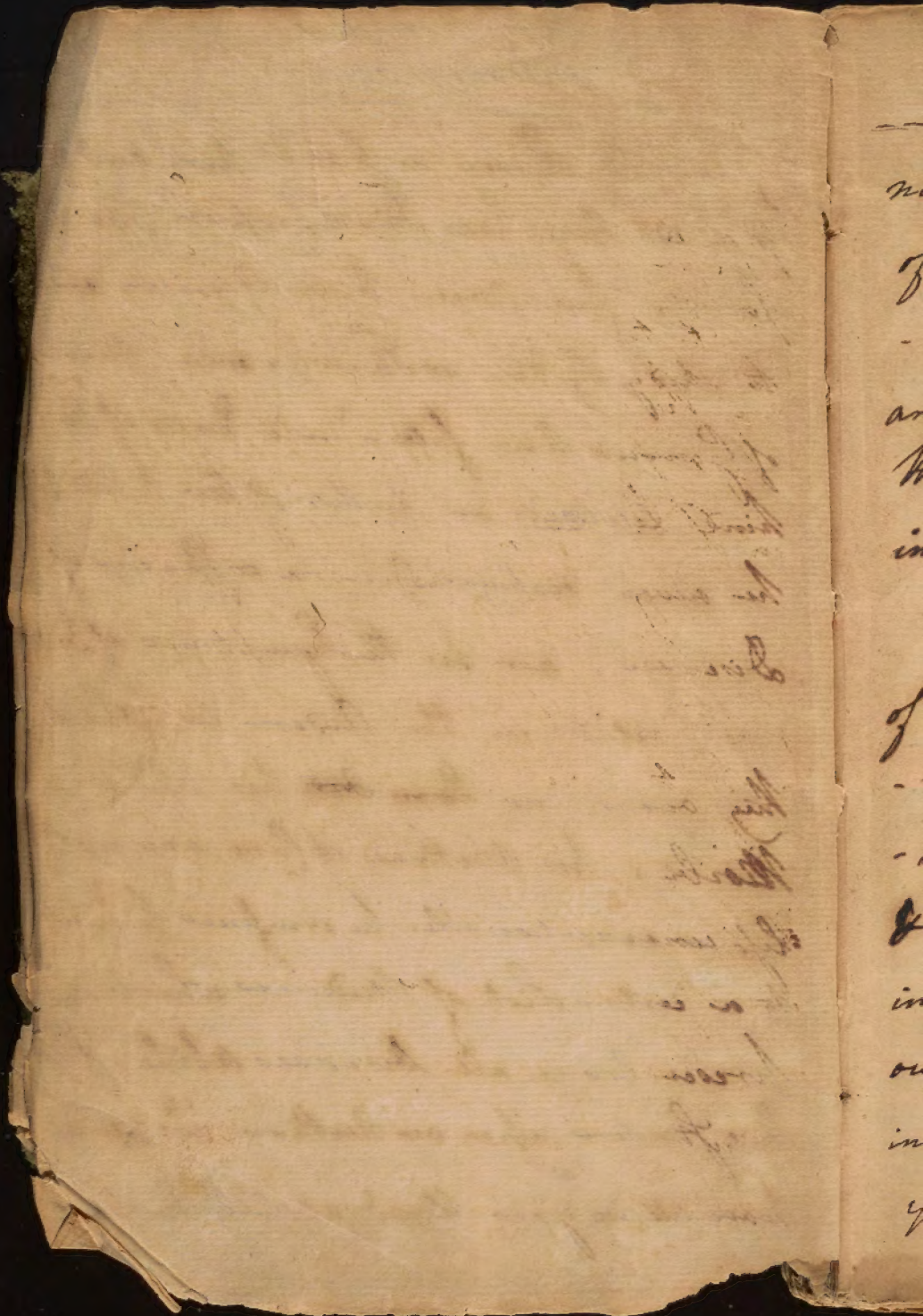


## Introduction

4

influenced by Theory as I would point out to you at large was this a proper place for it. few men have Genius <sup>enough</sup> to study System or Theory, even men of Genius have fallen into Errors of this kind. Lieutaud is an Author of this kind: he never distinguishes Genera or Species of Diseases, nor are the Symptoms of Diseases related in the Order in which they occur in ~~this~~ ~~his~~ his *Historia Morbi*. his Methods of Cure are not ~~less~~ <sup>less</sup> ~~con~~exceptionable. he confines himself to a certain List of Medicines which he prescribes in all Diseases alike. <sup>That</sup> these Structures upon an Author <sup>is</sup> in your hands absolutely not







## Introduction

5

nor do I think them foreign to a course  
of Lectures on the Practice of Physic.

- He tells us too that all his Recipes  
are the Result of Experience. strange!  
that Experience sh<sup>d</sup>. teach differently  
in France from w<sup>h</sup>. it does in England!

In my Opinion a new Method  
of studying Physic must be proposed.  
- Facts must be better arranged,  
- Diseases must be better distinguished,  
& proximate Causes must always be  
investigated if we would wish to advance  
our Knowledge in Physic, & our Skill  
in curing Diseases. Still I would advise  
you not to be too much attached to



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any One System, Altho some One System  
 is Absolutely necessary. I believe we  
 never had a worse Set of Practitioners  
 than at present, <sup>th</sup> w: is owing to their  
 not being attached to any One System, for  
 we are fluctuating between <sup>se</sup> Systems  
 of D<sup>r</sup> Boerhaave Stahl & Hoffman.

But you are happy Gentlemen  
 in having attended D<sup>r</sup> Gregory's  
 Lectures upon this subject <sup>th</sup> w: I may say  
 are the best now given in Europe. I  
 do not pretend to improve upon them.  
 — all I design is, to deliver a few general Doc-  
 trines <sup>th</sup> w: are peculiar to myself, & such as are  
<sup>not</sup> to be found in <sup>any</sup> Books of Physic. They are not  
 ones <sup>th</sup> w: I have embraced, & taught these 20 Years,  
 & which many of you have heard & read from Other  
 Mouths & Other Books besides my own.



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## Introduction

7

I shall now add, what Apistamus you  
may receive from Books. I think it  
absolutely necessary that you should be  
acquainted w<sup>th</sup> the works of Boerhaave Flahd  
& Hoffman. next to these I would advise  
you always to have Cruveilhier's Neurologia  
Methodica <sup>before</sup> ~~of~~ your <sup>Eyes</sup> ~~mind~~, as also Linnaeus  
& Vogel who have each of them attempted  
a systematic Arrangement of Diseases.

To assist you in the investigation  
of proximate Cause you must consult  
Definitions. the best <sup>Books</sup> for this purpose are  
Crangetus' Edition of Bonetus' Lequel  
Arctium Anatomicum - Morgagni de  
Causis & sedibus morborum, & a late work  
of Linnaeus called "



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## Introduction

8

Before I deliver my plan I shall give you a few more general principles. I before pointed out to you the Importance & necessity of System in Physic.

Diseases may be distinguished as Objects of Sense & in this manner may be reduced to a *Methodica* & *h<sup>is</sup>* from their proximate Causes. This last Method of dividing Diseases has hitherto been unattempted. I shall <sup>not</sup> now offer my Reasons for adopting it, but hope to convince you of its propriety hereafter. We have great Encouragement to proceed in Arranging Diseases in a systematic way from y<sup>e</sup> success<sup>s</sup> in the boteries of Botany have met with in the Arrangement of Plants. Dr. Gaubius has pointed out to us the possibility of the



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# Introduction

9

same success in Medicine in 1784 &  
of his Pathology. Altho' we have as yet  
reaped no great Advantages from the Attempts  
y<sup>t</sup> have been made, yet it should not dis-  
courage us from making further & more  
vigorous Attempts in this way. particu-  
lars cannot be studied by themselves from  
w<sup>h</sup> we said before concerning the Nature  
of Definition in the Language of the  
Logicians. When we knew but a few  
Genera & Species of plants our Investigation  
of them was much more difficult than  
at present since our Knowledge of plants  
has become more enlarged. But even y<sup>e</sup>  
Science of Botany cannot be complete till  
every plant in the world is found But all



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## Introduction

10

It is tend to show the necessity of reducing Particulars to System in Order to establish our Knowledge of them. This then is my Apology for the strictures I intend to make on the Arrangement of Diseases by Others, & the one I propose to offer of my Own.

In all Systems of Science the utmost Respect must be paid to <sup>the</sup> Nomenclature of particular Genera & Species or all our Language will be very vague & inaccurate. Denomination will always keep pace precisely w<sup>th</sup> distinction in all Sciences more especially in Medicine.

I shall now give you a few strictures upon the Systems of Physic that have



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## Introduction

11

been attempted each of which are far from being accurate. I shall therefore reject them all, but first give you my Reasons for it.

you see from the Comparison of three of them in the 1<sup>st</sup> page that Sauvage Linnaeus & Vogell all agree in the 1<sup>st</sup>, 4<sup>th</sup>, 6, 7, & 9<sup>th</sup> in the 8<sup>th</sup> & 10 Sauvage & Linnaeus agree, as also in their 2<sup>nd</sup> & 3<sup>rd</sup>, except that Linnaeus has divided one of these last Classes into 2 Orders. Sauvage & Vogel agree in general except in the 5<sup>th</sup> Class of 4<sup>e</sup> forms & a few other particular where Orders are made Classes or Classes Orders. The general Agreement of these 3 Authors points out the possibility & Advantages of Systematic Arrangement in Diseases.



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# Introduction

12

Some of these Clases ought entirely to be rejected from our System. the Critia is established by too slender a Definition: as being derived from the Seat, which we know is liable to great Ambiguity. - This Class in particular is confounded <sup>th</sup> w: all the Diseases of the Skin w: properly come under another Class.

The Arrhelationes should likewise be rejected as being <sup>an</sup> ~~an~~ improper Class. it unites many Genera of Diseases which have no Relation to One Another except in the single Symptom of difficult Respiration.  $\frac{c}{y}$  Asthma & Hydrothorax have no Relation to One Another ~~but~~ <sup>but</sup> they are better arranged in this Class.



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The Dolores should likewise have no con-  
:dition in a System of Physic. it is formed from  
a single Symptom <sup>ch</sup> w. was the Case <sup>th</sup> in the  
former Clap. in <sup>all</sup> our Arrangement of  
Diseases we should strictly avoid blending  
Diseases together from Symptom<sup>ch</sup> are  
common to many or most of them. thus  
the Cardialgia & Rheumatism are placed in  
this Clap. & yet how widely different are  
the Causes & Cures of these two Diseases!  
Besides he omits many Diseases ~~now~~  
under this Head where pain is <sup>the</sup> most  
characteristic Symptom, nor does he properly  
distinguish between Uneasiness & pain, &  
hence he reduces sickness ~~to~~ <sup>to</sup> ~~the~~ <sup>to</sup>  
this Clap. The Other 7 Claps of Force.  
vaue may be admitted under proper



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## Introduction

14

Restrictions. The 2<sup>d</sup> & 3<sup>d</sup> viz: the Leues  
& Phlegmas might w: <sup>the</sup> equal <sup>u</sup> propriety  
have been reduced to the one general Class  
of Febris. They are however natural  
Classes. They are all defective in this par-  
ticular viz: <sup>in having</sup> rejected all Cases of external  
Inflammation.

The 4<sup>th</sup> viz: the Spasmi is likewise a  
natural Class, & common to all the  
Authors we have spoken of. But it  
is defective in them all, in excluding the  
Asthma - Palpitatio Cordis &c, nor should  
they be separated from Other Spasmodic  
Diseases where the Spasm is more diffi-  
culty Observed.

The 6<sup>th</sup> Class Debilitates is founded in Nature  
but as it comprehends Organical Diseases



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of the Juncos, which properly belong to another Class. This Class ought only to comprehend the more general Affections of the Nervous System.

The 8<sup>th</sup> vesania is upon the whole a  
natural Cap, but it is ~~not~~ faulty in  
comprehending the Organical Affections of  
particular Organs such as the Cataract  
& several other Diseases of the Eyes <sup>as</sup> we have  
no Relation to Hypochondriasis or Delirium.

The 9<sup>th</sup> Typhus is a faulty Cap in not  
distinguishing those Typhus<sup>es</sup> are active &  
passive as Pathologists call them, as well  
as those w<sup>h</sup> are & those w<sup>h</sup> are not Atten-  
-220 w<sup>th</sup> Fever.

The 10<sup>th</sup> Lachesis is likewise incorrect in



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not distinguishing Organic from Systematic Affections. nor is the Definition of this C properly restricted.

To these Cases of Lamaze Vogel has added another viz the Epischeses <sup>ch</sup>. Lamaze rejects upon the Aut: of its be defined by negative Qualities. This I grant should be avoided in all Definitions as much as possible, but they must <sup>sometimes</sup> be called in. Lamaze himself falls in to it in a hundred Instances in the Course of his work.

- I cannot say however there was any necessity for a Class of this kind, as the suppression of Menstruation is often nothing else but a Symptom of other Disease.

After having raised the Objections



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to those Systems of Physic I have presumed  
to Offer One of my own <sup>is</sup> is indeed a  
very imperfect Attempt at a horologia  
Methodica. I had not time to make  
it better. I tho't it absolutely necessary  
as a Foundation for these Lectures, and  
I am willing to sacrifice a little of  
my own Reputation ~~rather~~ for your  
Advantage.

I have divided the plan into two  
parts. The first come immediately un-  
der the notice of the Physician. The 2.<sup>d</sup>  
belongs more properly to the Surgeon &  
upon that Art: has often been left out  
of a course of practical Lectures, <sup>is</sup> I propose  
to do in this the present.



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18

# Synopsis morborum

## Pars I.

Morbi universales sive totius Systematis

Classis I. Pyrexiae. Post Mororem, pulsus  
frequens, calor major, viribus Artuum  
imminutis.

Ordo 1<sup>mus</sup>. Febres. Pyrexia sine morbo locali  
primario.

Ordo 2<sup>ndus</sup>. Phlegmasia. Pyrexia cum dolore  
topico.

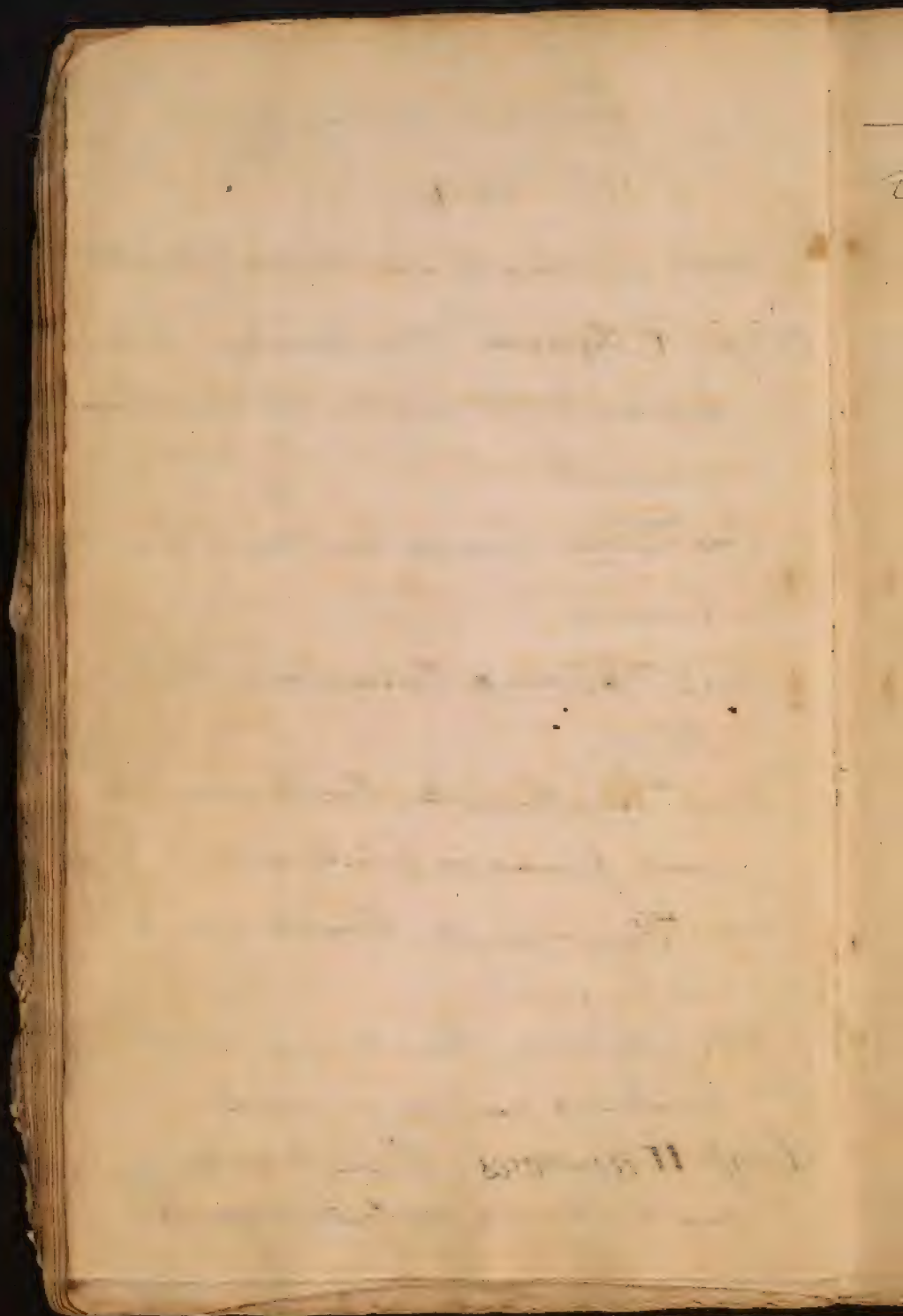
Ordo 3<sup>tius</sup>. Xanthemata. Post Pyrexiam phleg-  
= masia plures in cute sparsae.

Ordo 4<sup>thus</sup>. Hæmorrhagiae. Pyrexia cum profu-  
= sione sanguinis.

Ordo 5<sup>us</sup>. Profluvia. Pyrexia cum acuta  
excretionem non sanguinolenta.

Class: II neuroses. Sensus & motus affecti:  
= ones sine pyrexia vel vitio Organico.





# Synopsis morborum <sup>19</sup>

## Classis II Neuroses.

Ordo 1: <sup>mus</sup> Comata. Sensus & motus imminuti  
cum sopore.

Ordo 2: <sup>mus</sup> Adynamica. Sensus & motus immi-  
nati sine sopore.

Ordo 3: <sup>mus</sup> Spasmi. Muscularium fibrarum  
contractiones inordinatae.

Ordo 4: <sup>mus</sup> Vesania. Sensus externi & interni  
inordinati.

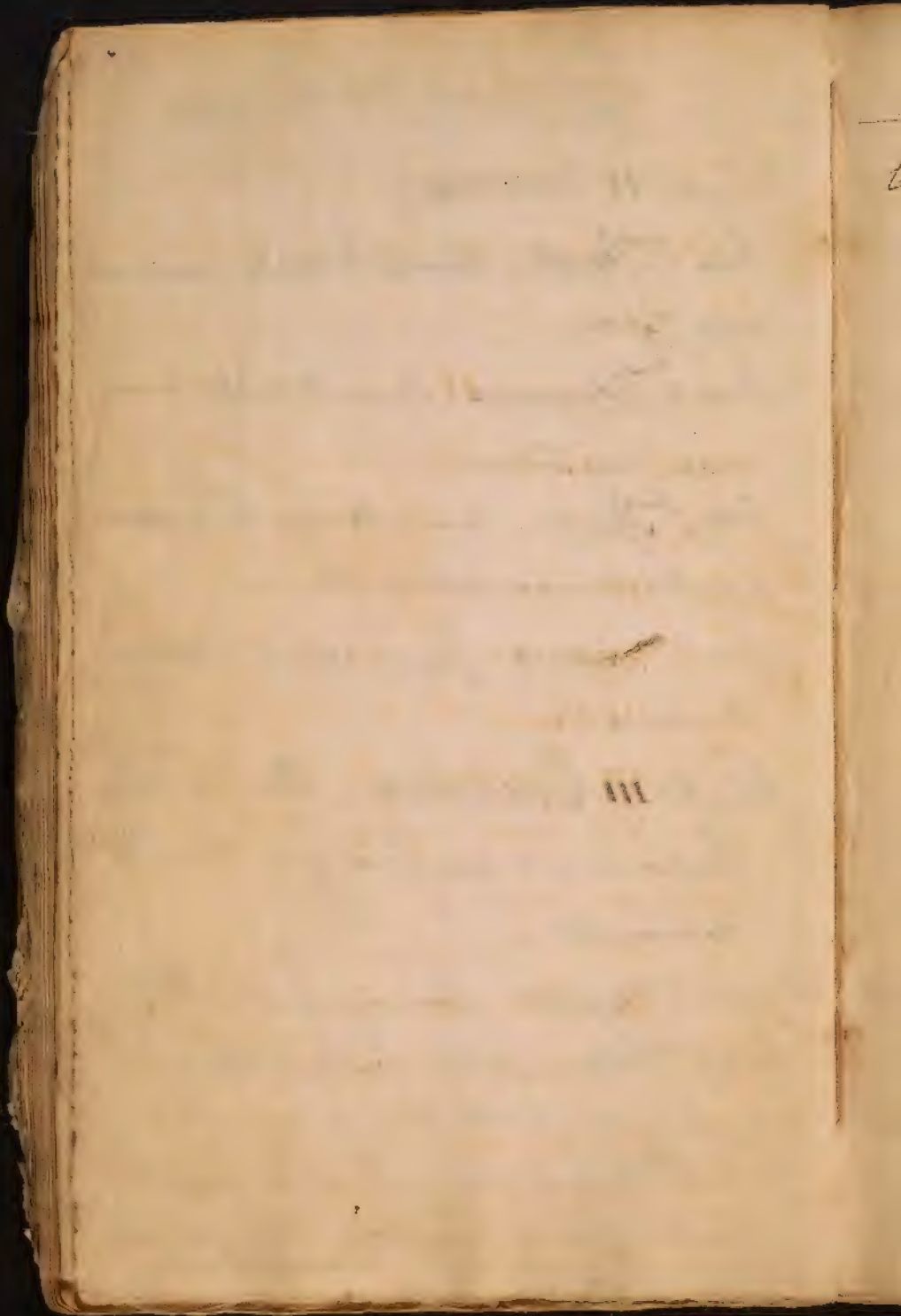
Classis III Cachexiae. <sup>externi</sup> Habitus totius  
Corporis, vel magnae ejus partis  
depravatus.

Ordo 1: <sup>mus</sup> Macies. Corporis extenuatio.

Ordo 2: <sup>mus</sup> Intumentia. Corporis totius vel  
magnae ejus partis volumen adauctum.

Ordo 3: <sup>mus</sup> Impetigines. Cutis defadata  
pustulis parvis, crustaceis plerumque  
gregatibus.





Synopsis morborum 20

Classis III Cachexia.

Ordo 4<sup>tu</sup>: Decolorationes. Cutis Color in  
toto Corpore mutatus.

Pars II.

Morbi particulares sive partis unius  
Organici.

Classis IV. Epischeses. Quernendorum  
Suppressiones

Classis V. Dysaesthesia. Sensus imminuti.

— VI Dialysis - Solutiones Continui.

— VII Pseudopentia. Tumores a soli:  
= dis adhaerentes.

— VIII. Cystides. Tumores capsulati.

— IX. Ectopia. Partium solidarum  
e suis Locis Dimotiones.

— X. Maculae. Cutis Coloris in  
partibus Mutatio.



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# Introduction

24

The 1<sup>st</sup> Class the Pyrexia is a natural  
Class & will therefore be readily admit-  
ted. All the Orders w<sup>ch</sup> it includes com-  
prehend those Diseases w<sup>ch</sup> depend upon  
an increased action of those powers w<sup>ch</sup>  
move the Fluids.

in the 1<sup>st</sup> Order under the Definition of  
Fever I have added the word primario.  
- you will see the propriety of this addition  
by consulting § 848 of Dr. Gaubius' Patho-  
logy.

The 2<sup>nd</sup> Order Phlegmasia ought to com-  
prehend a Definition of Inflammation  
but this would be foreign to our purpose  
& would have restricted it too much.

The 3<sup>rd</sup> Order you will perhaps think in-  
complete in not comprehending the



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Trichinelas or Anthrax, but I shall tell you my Reasons for omitting them here presently.

The 4<sup>th</sup> & 5<sup>th</sup> Orders are very generally attended w<sup>th</sup> Fever & therefore come properly under this Class.

Class II. Neuroses. Physicians disagree about this Class. the Definition I have offered I hope will include them all.

The Orders I have placed under this Class are not new, but the Arrangement of them is somewhat different from Lavague.

Class III. Cachexie. This is a very difficult Class, & all the Orders brought under it are included from dogmatic views



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## Introduction

23

or from notions of proximate Causes.

Order 1<sup>st</sup> maies. I believe seldom exists. it is rather a Symptom of Other Diseases as we shall hereafter show.

Order 2<sup>nd</sup> the Intumescuntia shall include all the Species of Dropsy, as they all depend in some Measure on One common Cause.

I told you before y<sup>t</sup>. I did not intend to treat of the 2<sup>nd</sup> part of the Causes of Diseases in our plan. you will find them accurately pointed out & divided by Dr. Gaubius in his Pathologia y<sup>t</sup> under y<sup>e</sup> Head of "morbi pleuro-rum Continuentium", & morbi Intest. & mentarii"



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I shall now enter upon the Consideration of the i<sup>st</sup> Case viz: the Pyrexia. I shall omit treating of this Case in a general way, but proceed immediately to the Discussion of the i<sup>st</sup> Order viz: the Febris where the Pyrexia do uniformly attend. It is the great Advantage of Nosologia Methodica to distinguish Diseases by those marks only <sup>th</sup> are essential & pathognomonic. Pyrexia therefore & even a quickness of Pulse are not sufficient to characterise Fevers. Something else then must be called in. I have therefore in Imitation of Lacraux chose to distinguish it likewise by the Horror <sup>th</sup> so universally attends Fevers.





To guide us in our Distinctions we shall briefly point out the Symptoms of a Fever, & for the sake of Perspicuity I shall select that Species of Fever which is called Intermittent.

This Disease comes on w<sup>th</sup> Lapsitude shivering & yawning. This Lapsitude is attended w<sup>th</sup> Fluggishness Indolence & Inactivity. The Patient is unable to stand or exercise himself as usual. These Symptoms are succeeded w<sup>th</sup> Paleness, which begins in the Extremities & tip of the nose. The body now shrinks - the skin contracts - Rings fall from y<sup>e</sup> Fingers - The



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Red vessels disappear. the skin is  
shrinked, but the nervous papillae  
project like Goose flesh. the Body  
is now cold to the Touch especially the  
Feet. this sense of Cold is attended  
<sup>the</sup> w: creeping thrills <sup>in</sup> w: are felt chiefly  
in the back. this Cold is attended w:  
<sup>in</sup> Tremors - Rigors <sup>in</sup> w: are most vi-  
olent in those parts where ~~the~~ are  
least supported as in  $\frac{2}{3}$  Lower Jaw.  
- now a Heat begins to spread itself  
from the Praecordia to every part of  
the Body. the Tremors cease. the Co-  
lor & fulness of the surface of  $\frac{2}{3}$  Body  
return - the face becomes red &



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flushed w<sup>th</sup> Heat. a sweat now breaks out  
beginning in the Face, & gradually  
extending itself all over the Body. the  
sweat after a while ceases. & y<sup>e</sup> Body  
returns to its usual state except y<sup>t</sup>  
a Debility remains for some time  
after the Fever. This Paroxysm as  
thus described has been divided in-  
to several stages. such as the  
Cold Fitt - the hot Fitt - & the  
time of sweat, or in other words  
y<sup>e</sup> Stadia Frigoris - Caloris & Sudoris.  
The Limits of these Fitts are not  
accurately defined. there are other  
Circumstances to be taken into our



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Consideration such as the state of  
the Pulse <sup>is</sup> in the cold Fitt is weak  
& irregular. in the hot Fitt it be-  
comes stronger, fuller & more regular,  
but is manifestly contracted & hard.  
as the Heat advances, the Pulse  
increases in Fullness & Force.  
when the sweat breaks out, the  
Pulse becomes more full but soft  
& when the sweat ~~comes~~ <sup>goes</sup> off <sup>&</sup> Pulse  
returns to its usual state.

The Respiration in the cold Fitt  
is small & labourious. in the  
hot Fitt it is less frequent & more  
easy, & as the preceding Fitt returns



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it becomes more easy & natural.

The functions vary in these Fevers.  
 in the cold Fever they are all Obstanted.  
 - the Skin is dry - the Mouth parched -  
 - the Bowels costive - no or very pale  
 urine - But in the hot Fever the func-  
tions are gradually opened & in the  
Stadio fuloris the Bowels are  
 opened - the pores are relaxed, ~~and~~ <sup>the</sup>  
 Mouth becomes moist, & <sup>the</sup> urine drops <sup>to</sup>  
 a calcitious Sediment.

In the Cold Fever all Ulcers appear to  
 dry - Tumors detumescere & some  
 disappear, but as <sup>the</sup> hot Fever & sweat-  
 ing return these Ulcers pour <sup>out</sup> ~~out~~  
 new Matter & the Tumor again



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appear

The Functions of the Stomach are greatly changed. an Aversion to all Food takes place, as also to Tobacco &c. a vomiting sometimes comes on. But all these disappear at the Approach of the hot & sweating Litt.

a Debility continues thro all these three Stages. Sensation is greatly interrupted in the cold Feet. the Eyes & Ears refuse to perform their Office. & the patient even becomes insensible to a ~~red~~ red hot Iron applied to the Feet.

at the Approach of the hot Litt &c a morbid Sensibility takes place to Light



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cc. Convulsive Tremor, & all Train  
of nervous Symptoms appear in <sup>c</sup>old  
Fitt.

Thirst is common to all these 3 stages  
but is generally greatest during the hot  
Fitt.

Pains are felt in <sup>c</sup>Head - back &  
Knees. they begin in the cold Fitt but  
are most violent in the hot Fitt, &  
generally keep pace w<sup>th</sup> Delirium & a  
throbbing of the Temples.

Death for the most part hap-  
pens in the cold Fitt, or if it is in <sup>c</sup>hot  
Fitt some Symptoms of the cold Fitt re-  
turn again.

These Symptoms are all greatly diver-



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ified all Idiopathic Fevers have gene-  
rally more than one or two of these  
Paroxysms. if they terminate in an  
entire Apyrexia they are called In-  
termittent, but if they do not they  
are called Remittent. if it is diffi-  
cult to distinguish the Apyrexia they  
are called Continuals.

Fevers are likewise distinguished by the  
 circumstances of the ~~Paroxysm~~ Paroxysm  
 - the Pulse. Respiration & Tremor  
 vary in the cold Febr together w: the  
 sensation. The Heat & Thirst vary  
 in the hot Febr together w: the whole Lan-  
 guiferous System.

These are the general facts in



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ted the notion of Fevers depending upon an Affection of the Fluids. Boerhaave & Hoffman first pointed out to us that Fevers depended on <sup>e</sup>y primary Affection of the nerves, but I shall take no notice of their Opinions, & deliver my own as plain as Jean.

The Lapsitude the stupor - the Drowsiness & Coma all show us that the Sensorium is ~~is~~ Affected in the first Attack of Fever, & depend upon a diminished Energy of <sup>e</sup>y Sensorium. This diminished Energy extends even to the Heart hence the small weak pulse & the paleness of <sup>e</sup>y Skin.

The Blood vessels especially the





Arteries are contracted distant from  
the action of the Heart, & while  $\frac{2}{3}$  Extre-  
mities of the Arteries are contracted, hence  
the Suppression & Obstruction of all the  
Secretions. This Constriction may be  
accounted for from the simple Plas-  
ticity or Contractility of the Extremities  
of the Arteries without having Recourse  
to an increased Influx from  $\frac{2}{3}$  Sensorium.  
While the ~~blood~~ small Arteries are  
thus contracted the Blood is accumu-  
lated in the larger Arteries hence the  
difficult Respiration &c which we spoke  
off before. The Increased action of  $\frac{2}{3}$  Heart  
does not depend upon  $\frac{2}{3}$  Stimulus of this  
accumulated Quantity of Blood, for its sensi-  
bility is greatly diminished. —



1840

My dear Mother  
I received your letter of the 10th inst. and was  
glad to hear from you. I am well and hope  
this finds you the same. I have not much news  
to write at present. I am still in the same  
place. I have not yet received your letter of the  
15th. I hope it will come soon. I am  
very much interested in the progress of the  
cause. I hope to hear from you soon.  
I am, dear Mother, your affectionate son,  
John Smith

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These Phenomena are succeeded by  
 a considerable Increase of the Hearts  
 Action. the Pulse becomes stronger &  
 fuller, & this is occasioned, <sup>in some measure</sup> by  $\gamma$  cold  
 Fitt. But in w. Mannen? This is a  
 very Difficult Question. we must refer it  
 to the vis Naturs Medicatrix <sup>ch</sup> w. dispo-  
 ses the System to recover its Balance when  
 destroyed. I do not suppose this vis Naturs  
 Medicatrix depends upon  $\gamma$  action of a  
 rational Intelligent principle, nor upon a  
 mixed Action of the Soul & Body as <sup>Dr</sup> Gaurin  
<sup>has done</sup> ~~supposes~~ Imagin that it  
 depends merely upon the  
 Mechanical Operation of our Constitution.  
 & flows from w. is called physical Necessity.  
 2.<sup>nd</sup> this <sup>Phenomenon</sup> ~~Datum~~ may be illustrated by



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a familiar Analogy. Sedatives take  
off the Excitement of the Sensorium  
but when taken in a moderate Degree  
rather excite the action of <sup>the</sup> Sensorium  
which tends to remove the sedative  
Impressions induced by the narcotic  
Medicines.

Does The diminished Circulation of <sup>the</sup> Blood  
in the small Arteries induce Cold, and  
a Constriction? <sup>Does</sup> this sensation of ~~the~~ Cold  
produce the Reaction of the Sensorium?  
has been maintained  
this ~~was~~ <sup>is</sup> from Cold exciting them:  
increased ~~the~~ action of the System, & inducing  
all the Phenomena of Fever. Cold then  
<sup>must</sup> be a necessary step in exciting the incre-  
ased action of the System. <sup>But</sup> Some Doubts



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may be offered to this Conjecture. all  
 cutaneous Hemorrhages are preceded <sup>th</sup> w a  
 sense of Horror & Cold. now Hemorrhages  
 are generally attended <sup>th</sup> w Coups: in  
 tion. this is most evident in y Face  
 before the Eruption of Blood from y  
 nose. After Child Birth too we see a  
 Fever attend the Congestions <sup>th</sup> w: are formed  
 in the Breasts previous to y Lactation of  
 Milk. we see Congestions in y Rheumatism  
 & Angina before the Horror & Other  
 Symptoms of Fever come on. I have  
 seen a bilious or calculous Constriction  
 bring on the Symptoms of Fever. in all  
 these Cases ~~the~~ Congestion the Pusorium  
 was excited to remove an uneasy Location



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Now all this tends to show  $\gamma$ :  $\gamma$  Reaction  
of the Sensorium does not depend upon  
Cold, but that the Phenomena of Fever  
depend upon the Reaction of  $\gamma$  Sensorium  
already begun. hence we often see  
Fever exacerbated without any cold Pitt.

- But why does the cold Pitt do often &  
necessarily intervene? - I do not think it  
a necessary Intervention Altho' it is conducive  
to bring on the Symptoms of Fever especially  
the increased Action of the Heart & Arteries  
& hence the Reason why cold Bathing has  
been found so useful in certain States of  
Fever. The Cold then is rather a part  
of the hot Pitt, & occurs in  $\gamma$  Reaction  
of the Sensorium in w.  $\gamma$  hot Pitt exists.



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This is the Reason why the more violent <sup>2</sup> of  
Cold Fits is, the sooner the cold Fit is ~~is~~  
formed, & the sooner the Paroxysm is  
terminated by Sweat, & why <sup>2</sup> of most  
dangerous Fevers are generally ushered  
in w<sup>th</sup> little or no Chilly Fit. Permitting  
Fever where no Pyrexia appears are  
more dangerous than Intermitting Fevers  
from the Circumstance of their being attend-  
ed w<sup>th</sup> no cold Fit. Those Paroxysms of Fe-  
ver w<sup>ch</sup> prove critical are always introduc-  
ed by an evident Cold Fit. I conclude  
then that the Cold Fit of Fever depends  
entirely upon the Reaction of Symplicium.

I do not pretend to explain any further  
the Reason of the cold Fit. we must refer



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it to a general Law of the System, or to  
the vires nature medicatrices. it depends  
we said on the Reaction of  $\frac{2}{1}$  Sensorium.

The Sensorium is a Centre of Motion, but  
has no motion in itself. all  $\frac{2}{1}$  Actions of  
the Sensorium then arise from Impres-  
sions made on it, so that ~~the~~ every Action of  
the Sensorium ought to <sup>be</sup> considered only  
as a Reaction. to illustrate this still further  
we must consider the Operation of Seda-  
tives in a more extensive manner. Seda-  
tives then do not act on  $\frac{2}{1}$  Centre or inmost  
part of the Sensorium, but act partially  
only. the part then on <sup>wh</sup> they do not act  
reacts again in a short time, & thus  
restores the whole to an Equilibrium.

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Cold is a sedative of this kind. When  
 applied to the Gut it induces a desire  
 to discharge <sup>the</sup> Urine & Faeces <sup>ch</sup> w: may depend  
 upon the Reaction of the Medulla Spinalis,  
 upon <sup>ch</sup> w: the Cold at first exerts its Sedative  
 power. Not only the Cold is an active  
 power of nature, but even the Tremors like-  
 wise & hence we always find their propriety  
 con- to the Action of the Heart & Arteries:  
 es <sup>ch</sup> w: Afterwards follows. Altho' ~~the~~ <sup>the</sup> cold  
 Fitt depends upon the Reaction of the  
 Sensorium, yet I will still allow that  
 it may, when bro't on have some Degree  
 of Stimulus <sup>ch</sup> w: may contribute towards  
 exciting the Action of the Heart & Arteries.

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The Resistance to be overcome by  
the Lensorium when  $\frac{2}{1}$  Cold is induced  
is a Spasm on the Extremities of the  
Capillary Arteries. an Atonia of these  
Vessels disposes to the Production of  
this Spasm <sup>the</sup> Atonia is not on by the  
want of Antagonist power on the Blood  
being propelled in to them. this Atonia  
is always greatest in proportion to the  
Distance of any part from the Heart, hence  
the Reason why the surface of  $\frac{2}{1}$  this is  
the chief Seat of Spasm. this Spasm continues  
for a considerable time during the hot Litt.  
I am & suppose ~~this Spasm~~ <sup>it</sup> constitutes  
the Fever & that when this <sup>is</sup> overcome the  
Fever is cured. this was formerly my



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Opinion, but we often see a Debility  
& want of Excitement <sup>&</sup> in y<sup>e</sup> Insensum  
precede the Spasm, ~~&~~ this must be  
removed before we cure Fevers. The  
hot Pitt is bred on by the Spasm &  
is supported by it, it is therefore a  
necessary Intervention in y<sup>e</sup> Cure of  
Fever. The Spasm then is not y<sup>e</sup> ~~cause~~  
cause itself altho the Cure of Fevers depends  
upon the Removal of it. The Spasm then  
is neither the fundamental Disease nor yet  
the Removal of it, but is the Effect of the  
first & Cause of the last. Fevers there-  
fore consist of 3 parts Debility Spasm &  
increased Action or hot Pitt. I will not

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say how Debility brings on Spasm or  
how Spasm brings on a hot Litt.  
The Continuance of each these are establi-  
shed by certain Laws of the Economy.

- The first Question of the Sensorium will  
be in encreasing the Action of  $\frac{1}{2}$  Heart  
& Arteries. then will react on the  
Sensorium & contribute towards its  
Excitement which enables it at last  
to overcome the Resistance on  $\frac{1}{2}$  Extremi-  
ties of the Arteries. the whole Cure of  
Fever then consists in restoring the Energy  
of the Sensorium. it begins to its Reaction  
itself; this we prove from the Phenomena of  
Syncope, but a proper State of Excitement  
is brot on by the Action of  $\frac{1}{2}$  Heart &  
Arteries.

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This finishes our proximate Cause of Fevers  
we have found it consist of 3 parts Debility  
Spasm & Hot Pitt. they all depend  
on each Other & succeed each Other in  
the Order I have mentioned. the first induces  
the second, & the second the last. I do  
not say each of these Stages we have been  
speaking of subsist Separately. they Others  
exist all at Once and are confounded with  
each Other. Fevers then consist in 1<sup>st</sup> an en-  
creased Heat, 2<sup>nd</sup> increased pulse when they follow  
Honor or a Chilly Pitt. <sup>for</sup> unless they  
are preceded by this, they cannot belong  
to the Class of Pyrexia.



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The Spasm may arise from many Causes on w<sup>ch</sup> the variety of Fevers ~~are~~ depend. It may depend <sup>on</sup> upon Congestion i.e. an Afflux of greater quantity of Blood than can be transmitted thro' <sup>the</sup> Blood-vessels. This kind of Spasm occurs in Hemorrhages. 2<sup>d</sup> upon acid Matter found upon ~~the~~ the Extremities of the Nerves as in <sup>the</sup> Rheumatism. But I doubt whether Spasm takes place here. a Congestion is formed I grant <sup>it</sup> may perhaps occasion a Spasm not only in the part where <sup>the</sup> Crisp-ness appears but all over the System. I now turn now to consider our first kind or what is properly called Fever.

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It is the different states of Debility & Power  
 & not either occasions the different genera  
 of Fevers. the Duration of each Paroxysm of  
 Fever depends upon the nature of the  
 Fever. a Fever is seldom terminated by one  
 Paroxysm <sup>in</sup> depend upon the Causes <sup>is</sup>:  
 first indeed the Fever still continuing in the  
 System. here I must define two Terms  
 viz. Interval & Intermission. the Interval  
 is from the <sup>beginning</sup> of one Fit to the <sup>commencement</sup>  
 of another the Intermission from the <sup>end</sup>  
 of one Fit to the <sup>beginning</sup> of another.  
 The Shorter the Paroxysm the longer the  
 Interval, & the shorter the Interval  
 the longer the Paroxysm. thus the paroxysm  
 of a Quotidian is 10 hours. of a

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Tertian 8, & of a Quartan 6 hours. I  
 speak this at a medium. there may be  
~~very~~ many Exceptions to it. There are ma-  
 ny causes w<sup>ch</sup> protract then paroxysms.

thus a Febr may be protracted beyond 24  
 hours, & in this case the Fever loses <sup>the</sup>  
 name of an Intermittent. there can there-  
 fore be no Intermittent if a Paroxysm con-  
 tinues beyond 24 hours. Our System is perpetu-  
 ally undergoing Change. the vital principle  
 in the Lincorium is always rising & falling  
 in its Oscillations, but appears to be in  
 its two Extremes Once at least in the  
 24 hours. This must be resolved into the  
 vicissitudes of Sleeping & Waking. any Laves



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then disposing to Fever will from these  
 Revolutions of our System be liable to in-  
 duce a Return of a Fever again. Hence we  
 find they generally return at One period  
 - thus Quotidians come on in  $\frac{1}{2}$  morning  
 - Tertian about noon - & Quartans in  $\frac{1}{2}$   
 afternoon. Every Paroxysm then of Fever  
 must run its Course in the 24 hours &  
 suffer at least some Remission. Unless  
 by Intervention intervenes in  $\frac{1}{2}$  24 hours  
~~they~~ <sup>they</sup> cannot occur at all, but from  $\frac{1}{2}$  24  
 of Habit &  $\frac{1}{2}$  vicissitudes we spoke of the Fever  
 goes on to be renewed every 24 hours. But  
 this seldom happens, & therefore I believe  
 there is no such thing as continual Fever. -

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This I assert from Observation as well  
as from Reasoning a priori. This there-  
fore shows  $\frac{2}{3}$  propriety of w: we said before.  
the longer the Paroxysm the shorter the  
Interval & vice versa. The Continuance  
of a Paroxysm will depend too upon  $\frac{2}{3}$   
greater or less action of the Spasm. &  
this will be influenced by Debility in its  
different Degrees. the greater  $\frac{2}{3}$  Debility the  
less the Spasm - Chilly Pitt. - Honor. Tumor  
&c. this Case occurs in the nervous or  
Malignant Fever. but in Intermittents  
the Debility is less - the Spasm more active  
& hence the Paroxysm becomes shorter.

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Let us now consider Pyrexia as accompanied w<sup>th</sup> Pneumonia. here is no Debility taking place. the Spasms generally proportioned to the Irritation.

But why is not each Paroxysm in this Case terminated sooner? Because the Congestion occasioning the Spasm is not easily removed. hence all Inflammatory Fevers are of the continual kind. in the Congestions preceding Hemorrhages the Pyrexia always continues till the Congestion is removed. In the Congestions tending to Suppuration the Pyrexia ceases when the Fluids are effused but not before as then only if Congestion is removed.



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The Inflammatory Spasm (for such I shall call it) differs widely from <sup>the</sup> Intermittent Spasm in not being attended w: so great Horror - Tremor. The Inflamm<sup>n</sup> Spasm is often topical, & consists in an enervation of the vessels near to <sup>the</sup> place where the Congestion is formed. This Spasm communicates an Inflamm<sup>n</sup>. Diathesis to the whole Arterial System. But in Inflammatory Fever, the Action of the Lurorium is communicated chiefly to the Heart primarily ~~not~~ <sup>&</sup> not to <sup>the</sup> Arteries as in the Case of the Phlegmasia. In every Spasm there are 2 Circumstances to be considered viz Constriction & Irritation.

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The 1<sup>st</sup> produces the last, in such a manner as to stimulate the Lensorium <sup>or</sup> reacts again upon the Arterial System. - These are not always proportioned to each other. When the Constitution is more violent than  $\frac{1}{2}$  Irritation the Paroxysm will be long. The Reverse Case gives shorter paroxysms. The violent Constitution occurs in Inflam<sup>n</sup>: Fevers. hence Intermitting Fevers when they partake of the Inflam<sup>n</sup>: Distasis are so easily changed into contin<sup>t</sup>: Fevers. Very Irritation applied to the Arterial System increases the Spasm in an equal Degree. Thus Cold excites Inflam<sup>n</sup>: in the Arterial System, & of such

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a Degree as to be difficultly resolved. This then gives us another view of <sup>2</sup> Reason why some Paroxysms of Fevers are longer than Others.

Here a natural Question occurs. if a Pyrexia arises <sup>(tho'</sup> not from Debility or Phlegmonia) what shall we call it? Such a Fever is excited by cold bathing. But this a transitory Affection & should not be admitted so as to form an Order. If ever it is permanent <sup>th</sup> it is accompanied w: Lurpime or Fever, but this being, it back to the Fevers arising from Debility or arising from Congestion being previously formed before the Body is ~~exposed~~ <sup>exposed</sup> to Cold. Do not direct Stimuli produce



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Purpura? if they do it is by first ex-  
 citing Congestion w: reduces it to the  
 Phlegmonia. But <sup>what</sup> shall we say  
 to <sup>Exercise</sup> Insolation - & various acrid Stimu-  
 -li taken into the body? I much doubt  
 whether such Stimuli act directly in  
 producing Fever. They produce a Debility  
 which disposes the body to be affected w:  
 Fever. The Insolation acts by exciting  
 topical Inflammation. acrid Substances  
 thrown inwardly produce general Conges-  
 -tions & therefore the Inflam? Spasm.

does not induce ~~or~~ or an inordinate  
 Quantity of Food produce Fever? I  
 shall answer this Question hereafter

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I conclude therefore that there is no  
Foundation for establishing a new  
Order of Pyrexia distinct from Debility or  
Conjestion. a moderate Degree of De-  
bility w<sup>th</sup> any Irritating Cause ~~it~~ induces  
~~the~~ a Spasm w<sup>ch</sup> irritates the Heart  
only & produces Inflam<sup>n</sup>? Fev<sup>r</sup>. Ve.

I believe there are but two kinds  
of Spasm viz: the Inflam<sup>n</sup>? Spasm  
& that arising from Debility alone.

The Spasm in the nervous Fevers don't de-  
pend on Debility alone. great Debility  
occurs in Interm<sup>3</sup>. Fevers. I suspect  
therefore that all nervous Fevers have

§ This is confirmed by an Observa-  
tion of Dr. Cleghorn who tells us  
y<sup>2</sup> in all Inter<sup>3</sup> Tumor<sup>4</sup> w<sup>h</sup> became  
continued he discovered evident  
Marks of Inflamm<sup>n</sup> after Death.  
Dr. Pingle's Dissections tend to confirm  
the same Opinion. —



something of the Inflam<sup>n</sup>? Diathesis  
 - most of the putrid Diseases show  
 us marks of Inflammation before &  
 after Death. This may arise from  
 Contagion acting as sedative & inducing  
 Debility & as stimula<sup>n</sup>? & thus inducing  
 Inflammation. Some of them begin w.  
 Inflam<sup>n</sup>? Appearances, but from repeated  
 paroxysms change into the nervous.  
 Intermittents sometimes begin w. In-  
 flam<sup>n</sup>? Symptoms, but as ~~this~~ this  
 Inflam<sup>n</sup>? Diathesis goes off they become  
 more regularly intermitting, all ~~then~~ <sup>Fewer</sup>  
 then of long continuance are attended with  
 more or less of the Inflam<sup>n</sup>? Diathesis.



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Intermitting Fevers are the Only ones where  
no Inflamm<sup>n</sup>? Diathesis appears. From this  
then we derive a very general Division  
of Fevers. may not Contin<sup>l</sup> Fevers depend  
on Debility alone? no - where Inflamm<sup>n</sup>?  
Fevers become Remitt<sup>g</sup>? or continual. It is  
owing to some stimulus being applied. It  
may perhaps in some cases form a Remitt-  
ing Fever, but never can form a contin<sup>l</sup>?  
one. It is then the Absence or Presence  
of the Diathesis Phlogistica that gives us  
the difference of Intermitting or continual  
Fevers. It were to be wished we could  
distinguish Intermitting & continual  
Fevers from each other at their first

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Approach. the general marks of  
 an Intermitt. Fever are 1<sup>st</sup> an Epid.  
 :mic Constitution of the Year 2<sup>nd</sup> from  $\frac{2}{4}$   
 greater Degree of Latitude 3<sup>rd</sup> from  $\frac{2}{4}$   
 longer Continuance of the cold Fit  
 4<sup>th</sup> from a quantity of Bile being  
 discharged during the Fit. This may  
 depend up on the long Continuance of  
 the Phlegm determining the Blood to  
 the Viscera, more especially to the Liver w:  
 promotes an increased Secretion of Bile  
 which <sup>we know</sup> by vomiting. 5<sup>th</sup> from  $\frac{2}{4}$  Degree  
 of Remission which is always longer  $\frac{2}{4}$   
 in Continual Fevers. This mark is always

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more certain when the Urine drops  
a latitious sediment, as this shows  
that the Spasm is taken off from the  
Extremities. 6<sup>th</sup> from the Exacerbation  
in Intermitt<sup>ts</sup>. Fevers are always  
attended w<sup>th</sup> more Horror than in Contin<sup>ts</sup>.  
als. we are more surely determined  
that a Fever is Intermitt<sup>ts</sup>. when y<sup>e</sup>.  
Exacerbation appears in the Morning  
But sh<sup>d</sup>. the Exacerbation happen at  
any other time of the day it does not  
follow y<sup>e</sup>. It is not intermitting. Notw<sup>th</sup>.  
withstanding all these Marks Intermittents  
may so far resemble continual Fevers  
as to change their very nature in some.



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that they require a very different Treatment as we shall say hereafter. Let us now inquire into <sup>e</sup> circumstances <sup>we</sup> give a Presumption of a Fever being continual. These are <sup>1<sup>st</sup></sup> the Fevers having arose from Causes of Inflammation whether Occasional or predisposing. the ~~latter~~ <sup>former</sup> Causes occur in cold Climates & Seasons. the latter are Stimuli of all kind. to these we may add warm weather succeeding Cold - Irritating - high seasoned Food &c.

2<sup>nd</sup> the actual Symptoms of Inflammation Diathesis such as a hard pulse. high

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could not mine <sup>the</sup> worst any Sediment  
& size Blood. none of these occur for  
the most part in Intermittents. These

Distinctions will appear of great Con-  
sequence when we come to <sup>the</sup> Cure of these  
Fever.

I admit then of but two Genera of  
Fever the Continual & Intermitting.

The Continual are such as are without  
any remarkable Remission.

The Intermitt are such as are attended  
<sup>the</sup> with evident Remissions & have a Horror  
attending their Exacerbations. The last of  
these marks I grant is not very absolute or  
universal.

Index

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Let us now attend to the Subdivision  
of these Fevers.

The Continuals I said were attended <sup>th</sup> w:  
Diathesis Phlogistica. But they are greatly  
varied by different Degrees of Debility.

Some of them ~~of~~ are ushered in w<sup>th</sup> this  
Debility - by great Prostration - Coma - Vo-  
miting - low weak & slow pulse. These are  
what are called by English Physicians  
Nervous Fevers. The slow pulse is not  
essential to this Fever, nor yet <sup>2</sup> a mode-  
rate Degree of Heat w<sup>th</sup> Parva takes  
in to the Character of this Fever. These  
Marks apply however in general to  
all <sup>2</sup> Gravities of Typhus in Parva.



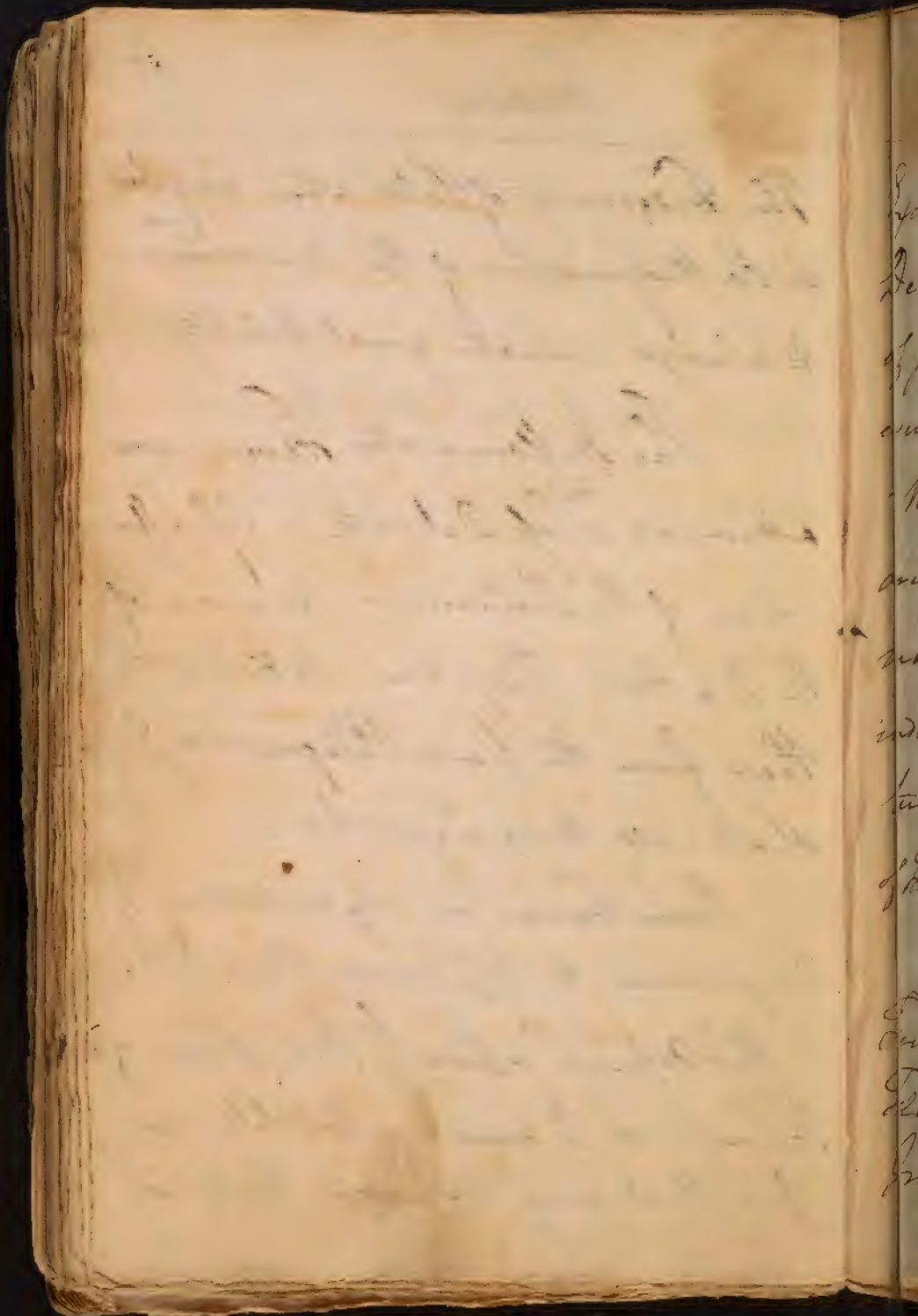
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The Frequency of Pulse when very low  
is Pathognomonic of the Nervous Fever  
& always indicates great Debility.

The Inflammatory Fevers are  
attended w<sup>th</sup> less Debility - less affec-  
tion of the Sensorium & more of  
the Diathesis Phlogistica. to distinguish  
these from the pure Phlegmasia I  
shall call them *Dynosha*.

Some Fevers are synochous in  $\frac{2}{3}$   
beginning & typhous in their end.  
- This depends upon  $\frac{2}{3}$  Repetitions of  
Paroxysms w<sup>ch</sup> increases Debility. we  
find that every increased state of





Exhaustion ~~is~~ brings on  
Debility. this is evident in the case  
of Pleb<sup>ic</sup> w: succeeds Exercise or  
every thing w: excites the Sensorium.

- But topical Affections of  $\frac{1}{2}$  Brain<sup>ic</sup>  
are produced in  $\frac{1}{2}$  progress of Fevers  
may have a considerable share in  
inducing Debility. we ~~had~~ want a  
term to explain this intermediate state  
of Fevers between the Synocha & Typhus.

what shall we say to putrid  
Fevers? ~~they~~ are the tendency of our  
Fluids to Putrefaction occurs in  
Inflamat<sup>n</sup> Remitting - & Inter.

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will? Fevers. no Distinction of them  
 can be taken from Putrefaction.  
 all Fevers from increased Heat-  
 motion & Debility tend towards Pu-  
 trefaction, but those Fevers w<sup>ch</sup> are cal-  
 l'd Putrid may be distinguished from  
 common Fevers. the putrid Conta-  
 gion generally affects in such a  
 manner as to appear most in  
 continued Fevers, & those too of the  
 nervous kind from the deductive power  
 of the Contagion. Putrid Fevers  
 likewise begin w<sup>th</sup> Inflamma<sup>n</sup> symptoms  
 from y<sup>e</sup> Contagion's acting primarily



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as a Stimulus. - After a while  
these Fevers become nervous which  
may arise from  $\frac{1}{2}$  putrid Conta-  
gion multiplying itself in such a  
manner as to exert Sedative Effects.

- They are further distinguished  
by great Debility. dissolved Blood -  
Hemorrhages Petechia - high, con-  
sistent Urine - loose stools & colligative  
Sweats.

The Combination of the Inflamm<sup>y</sup>  
w<sup>th</sup> the nervous & putrid give the  
most common Genus of Fevers.

We are often at a Loss to deter-

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mine whether Phlegmasia or Fever  
are primary Diseases. They often  
produce & succeed each other. to  
distinguish them from one another  
we must <sup>be</sup> attend to  $\frac{2}{7}$  season  
of the Year. in the Spring the Phlegmasia  
is the primary Disorder. in the  
Fall the Fever. 2.<sup>nd</sup> If the Phlegmasia  
appears some Days after the Fever  
ever comes on I would conclude the  
Fever to be the primary Disease, &  
vice versa if the Fever comes on af-  
ter the Phlegmasia. 3. Fever is  
distinguished from Phlegmasia by the

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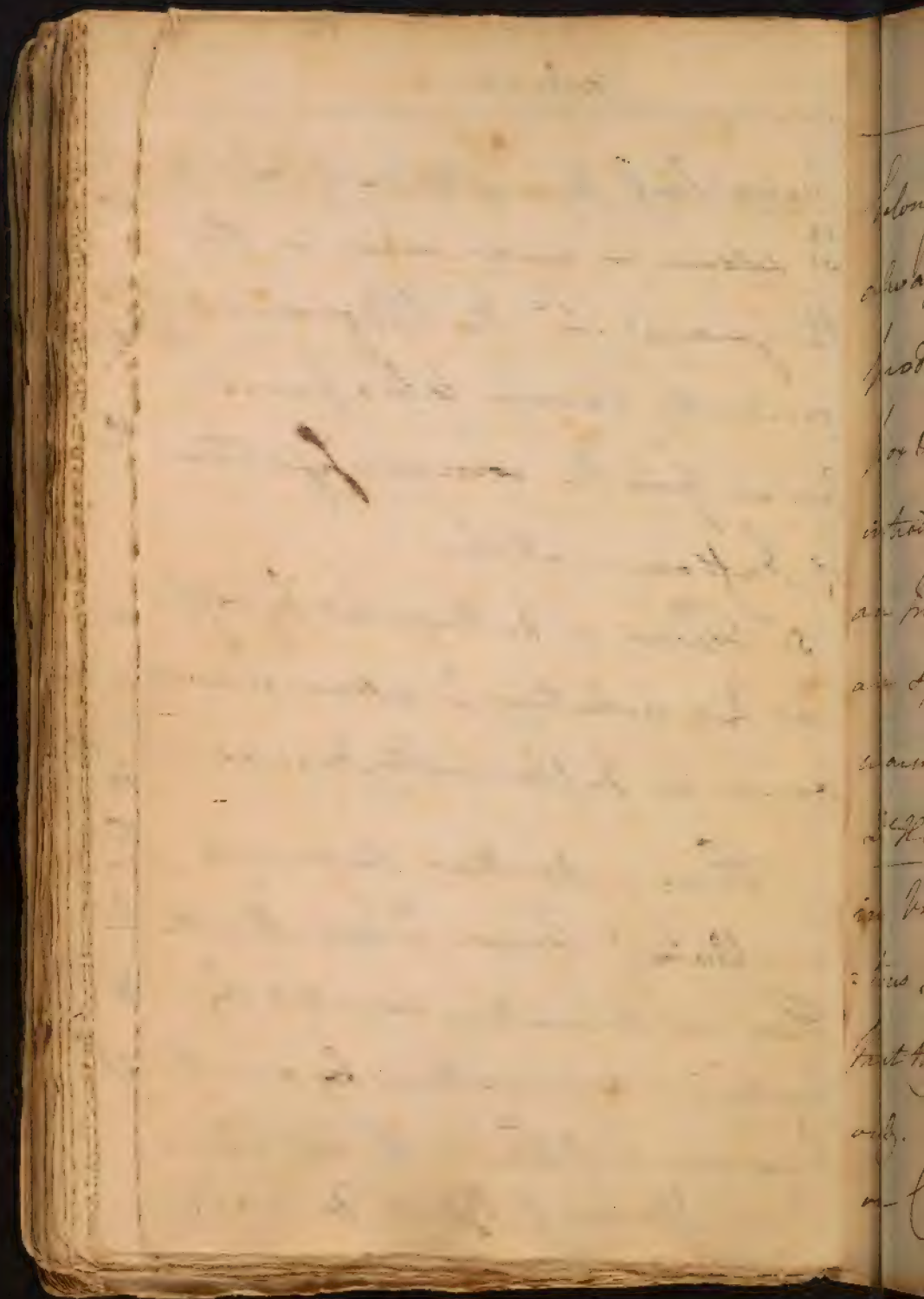
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Prevailing Symptoms of Debility  
<sup>or</sup> w: seldom or never occur in the  
 Phlegmasia. 4<sup>th</sup> The Phlegmasia is very  
 generally known to be a primary  
 Disease from the common Symptoms  
 of Inflammation.

5<sup>th</sup> Fever is distinguished by regu:  
 lar exacerbations <sup>or</sup> w: seldom or never  
 occur in Inflammatory Diseases.

There is Another seeming  
 Complication of Fever <sup>or</sup> w: exanthemata.  
 These are sometimes excited by  
 Contagium & sometimes ~~by~~ are the  
 Consequence of Fever. The ~~Red~~ Patches  
<sup>or</sup> w: are Effusions of Blood do not





belong to this ~~dis~~ Order, but are  
always Symptomatic & are generally  
produced by Pothelaction. The small  
pox & Measles depend on Contagion  
introduced, & therefore do not form  
an Instance of the Complication we  
are speaking off. There are ~~Other~~  
warm Disputes carried on between  
De Haen & some Other Physicians  
in Vienna concerning this exanthema-  
tous Fever. The former supposes  
that they depend on  $\frac{2}{3}$  warm Regimen  
only. The latter asserts that they depend  
on Contagion in  $\frac{2}{3}$  same manner.

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as  $\frac{2}{3}$  small pop. I do not think  
that they are the Offspring of Fever  
alone as De Haen imagines. They  
are certainly of a contagious nature,  
Notwithstanding they were never ob-  
served till the last Century for many  
Diseases have prevailed for many years  
tho' not being described by Physicians. Still  
I allow that many Fevers by a swea-  
ting Regimen may terminate in a  
miliary Eruption. But this Insup-  
puration changes to an Opake purulent  
Appearance like the pure Exanthema.  
This Observation I grant is  
liable to some Exceptions. all military

Dear Mother  
I received your letter of the 10th inst.  
and was glad to hear from you.  
I am well and hope these few lines  
will find you the same.  
I have not much news to write at  
present.  
I am, dear Mother, ever your affectionate  
son,  
John

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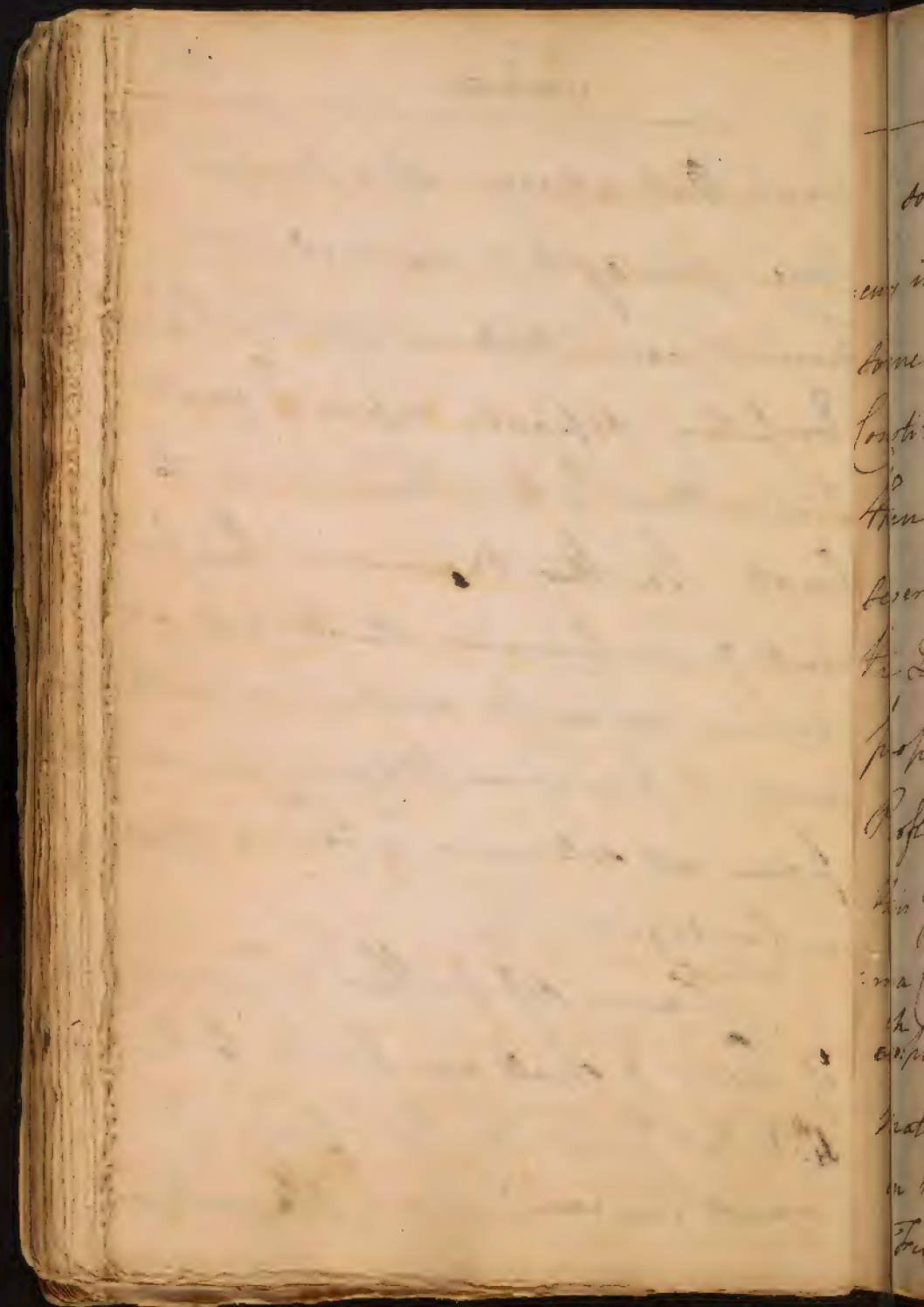
Eruptions are accompanied <sup>th</sup> w<sup>th</sup> sweat-  
ing. now we may suppose a pecu-  
liar state of System & Skin w<sup>ch</sup> disposes to  
miliary Eruption. This is y<sup>e</sup> Case in  
Child Bearing women who always  
in this Country have a miliary  
Eruption when I have ~~to~~ been con-  
sident no Contagion of any kind prevail-  
ed among them. There is an Obor Sci  
Generis w<sup>ch</sup> I cannot describe w<sup>ch</sup> always  
attends these miliary Eruptions w<sup>ch</sup>  
are the consequence of Fever. A miliary  
Eruption attends many putrid con-  
tagious Fevers, but as all are not  
seized <sup>th</sup> w<sup>th</sup> them, & as it does not





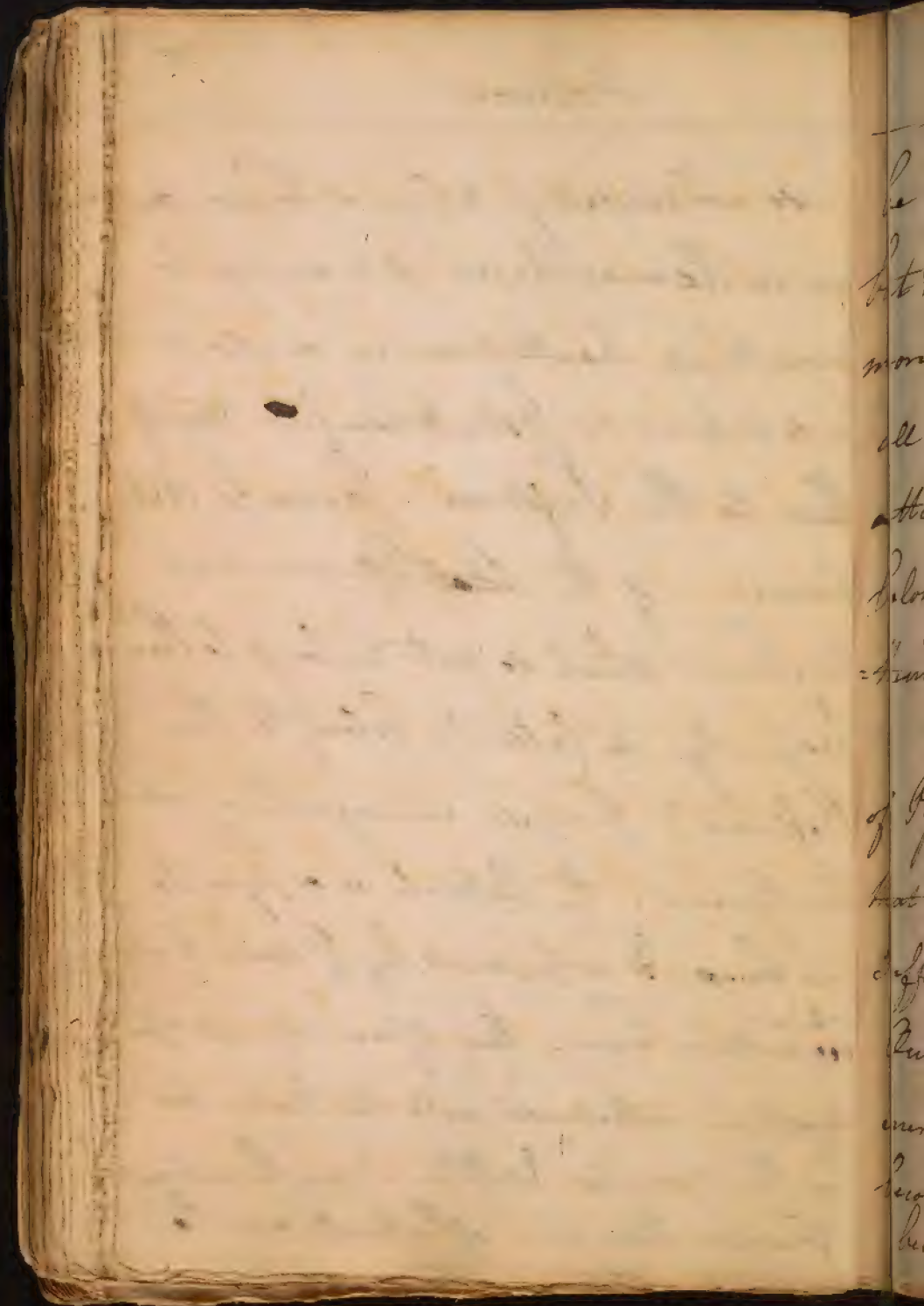
break Out always at a precise  
time, imagining no military  
Ferment was introduced but y<sup>e</sup> the  
eruption depends upon y<sup>e</sup> great  
Disposition w<sup>ch</sup> these Fevers have to  
Sweat. In this manner therefore  
would I compromise the Disputes at  
Vienna. upon the whole I am most  
inclined to embrace De Haen's Opinion  
I dare not determine w<sup>ch</sup> Fever depends  
on Contagion. —

Having discussed these 3 Genera  
of Fevers I shall now proceed to the  
4<sup>th</sup> & last Genus viz: the Pestilencia. I  
cannot here comprehend Haemorrhages





so universally. When a Fever occurs in Hemorrhages it is owing to something particular in certain Constitutions. I shall confine myself then to the Profluvia. Sauvage ranks several of the ~~Profluvia~~ among the Fevers which do not belong to them properly. do Catarrhs belong to the Profluvia? I shall arrange them under this Genus. The Catarrh is a Symptom <sup>ma</sup> cause. It is produced by <sup>the</sup> same causes <sup>which</sup> produce Fever. They often depend upon Matter introduced into the Body as in the Measles & other Exanthematic Fevers. These kind of Catarrhs are to

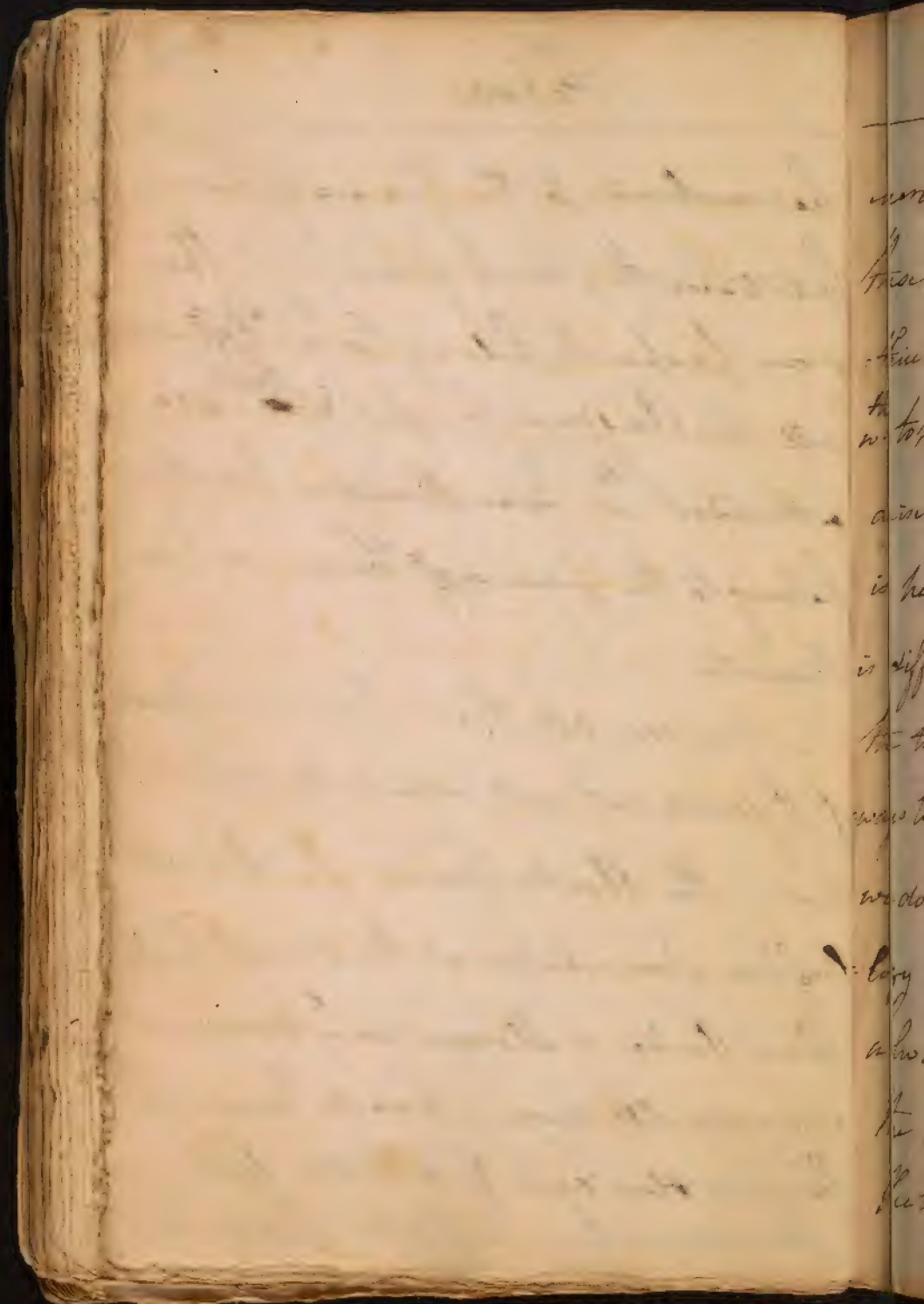




be resolved to the Genera of Fevers,  
 but when they arise from Cold they  
 more properly belong to <sup>the</sup> Profluvia.  
 all the Anginas, Coughs & <sup>such</sup> are  
 attended w: <sup>the</sup> Exanthematous Eruptions  
 belong to the Genera of Fever or Exan-  
 themata.

Besides all these there is a Genus  
 of Pyrexia not yet reduced to any Order  
 that is the Hectic Fever. This Disease  
 suffers Exacerbations at the diurnal Periods  
 Our Pulse is slower in <sup>the</sup> Morning  
 increases till noon, towards Evening  
 becomes slow again & a little later  
 becomes quick. The Hectic Fever is





increased remarkably at each of  
 these Periods. Is there any Idiopa-  
 thic Heat or Fever? not connected  
<sup>th</sup> w: topical Affection? no. It always  
 arises from some topical Disease, &  
 is never Idiopathic. Sometimes it  
 is difficult to distinguish or point out  
 the topical Affection, nor can we al-  
 ways tell how it excites a Fever when  
 we do perceive it, But from Ana-  
 logy we may conclude the Heat or Fever  
 is always occasioned by ~~the~~ <sup>the</sup> ~~affec~~ <sup>affec</sup> upon  
 the whole then I conclude y: the  
 Heat or Fever ought not to be a separate

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Genus of Fever. It generally depends upon an inflammatory Congestion especially when it arises from a Suppuration in the Lungs. Matter is likewise absorbed from Ulcers <sup>in</sup> w. we know irritating & weakens the System. & from hence arise  $\frac{1}{2}$  haemorrhages & profuse sweats.

This finishes all I had to say concerning the General Division of Fevers.

I come now to treat of  $\frac{1}{2}$  remote Causes of Fevers. Remote Causes

The proximate Causes of Fever we have said are Debility & Congestion.



generally speaking. for there is no  
Principle in any science much  
more Physic, but w. is liable to 4.  
aptitudes.

The chief causes of ~~the~~ Fevers are

1. Extraneous Bodies introduced.
2. Debilitat. <sup>3</sup>passions of the mind.
3. <sup>w</sup>the action of Cold.

The Introduction of foreign Matter  
is the most general Cause of Fever.

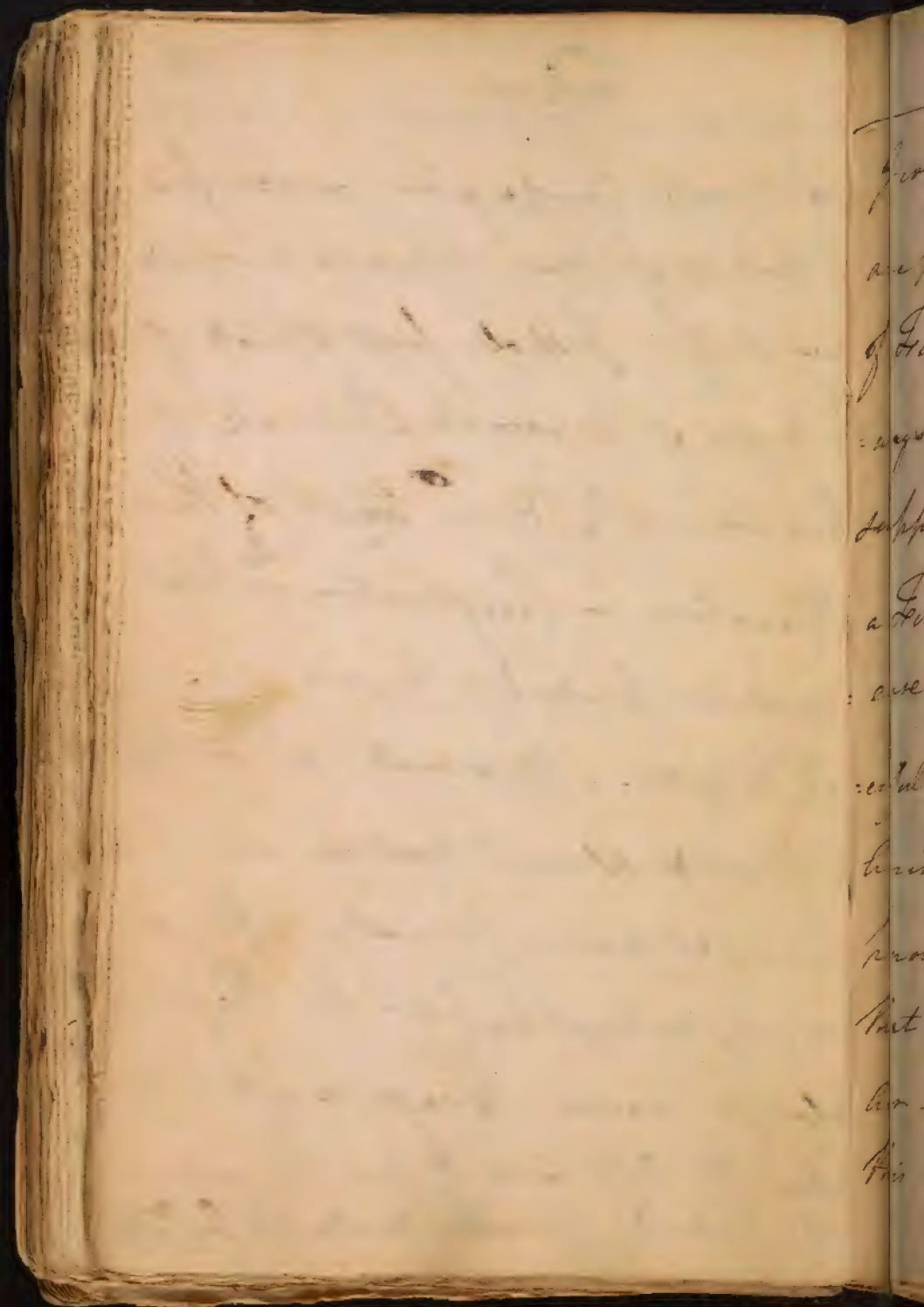
- These Matters are either Miasmata  
or Contagion. The Miasmata are cer-  
tain particles arising from morbid bodies





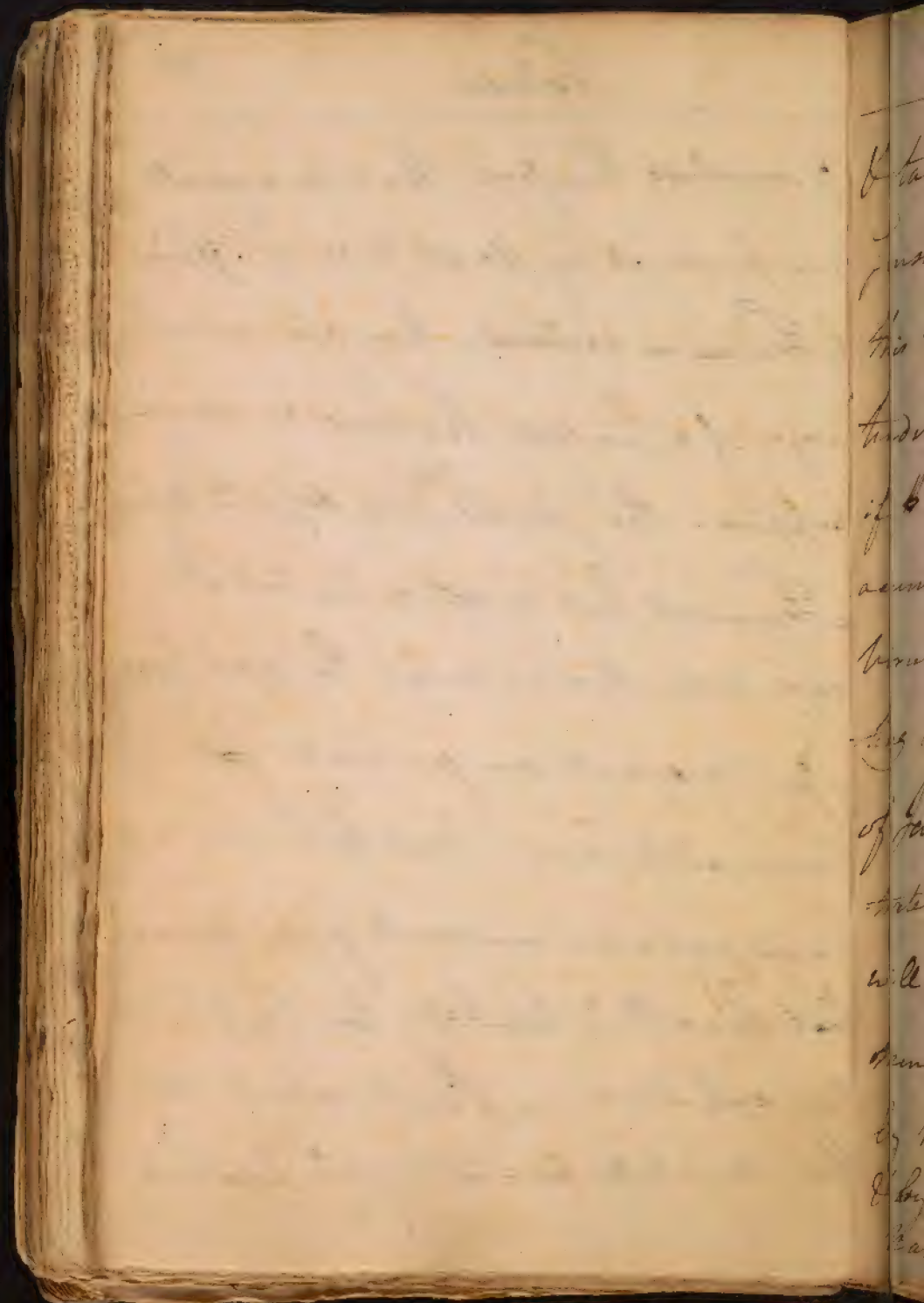
of Men. Contagion arises from  
2  
7 Bodies of Men likewise & reprodu:  
ces itself. I shall first speak of  
1  
7 Origin of Miasmata 2: <sup>only</sup> speak of  
their Diversity & 3: treat of their  
Operation in Conjunction w<sup>th</sup> Other  
Causes in producing Fever.

i. Origin. - Miasmata are owing  
to Heat & abound most in warm  
Seasons & warm Climates. They are  
mostly destroyed by Cold. The Plague  
always ceases to rage in cold Countries  
upon the Approach of Winter. even  
the Catarrhus Synochus is checked by Cold.





I conclude therefore that miasmata  
are produced by Heat & any Effluvia  
of Fermentation. They are not al-  
ways of a putrid nature as some  
suppose. the small pox depends upon  
a Ferment but is not a putrid Dis-  
ease notwithstanding. the most pow-  
erful Miasmata are generated ~~for~~ in  
animal Bodies. Mephitic Air we  
know exhales constantly from Animals  
that breathe. perhaps too Mephitic  
Air exhales in Perspiration. now  
this Mephitic Air is highly Sedative,





I take off  $\frac{1}{2}$  excited state of the  
 Immorium, at Once. a Diffusion of  
 this Mephitic Air in  $\frac{1}{2}$  Atmosphere  
 tends to destroy its virulence. But  
 if ~~it~~ it is long retained in  $\frac{1}{2}$  Coaths &  
 accumulated it acquires a peculiar  
 virulence & becomes capable of affect-  
 ing Animal Bodies. The Histories  
 of Jail of Hospital Fevers tend to illus-  
 trate & confirm this Doctrine. Fevers  
 will be greatly varied by  $\frac{1}{2}$  different  
 Men from whence  $\frac{1}{2}$  Miasmata come.  
 by the Season of the year. by  $\frac{1}{2}$  Climate  
 & by several other Circumstances of  $\frac{1}{2}$   
 Nature.





These Miasmata multiply them-  
selves in the human body, & produce  
a Contagion capable of producing  
the same Disease again. When they  
become Contagion they acquire a  
particular power, of affecting those  
whom the Miasmata did not. But  
there is another source of Miasmata  
arising from all other Animal Sub-  
stances. They are <sup>not</sup> always the Offspring  
of Putrefaction. or the Anatomists w?  
be most subject to putrid Fevers who  
are so much conversant w<sup>th</sup> putrid  
Animal Bodies. nor do Excrements pro-

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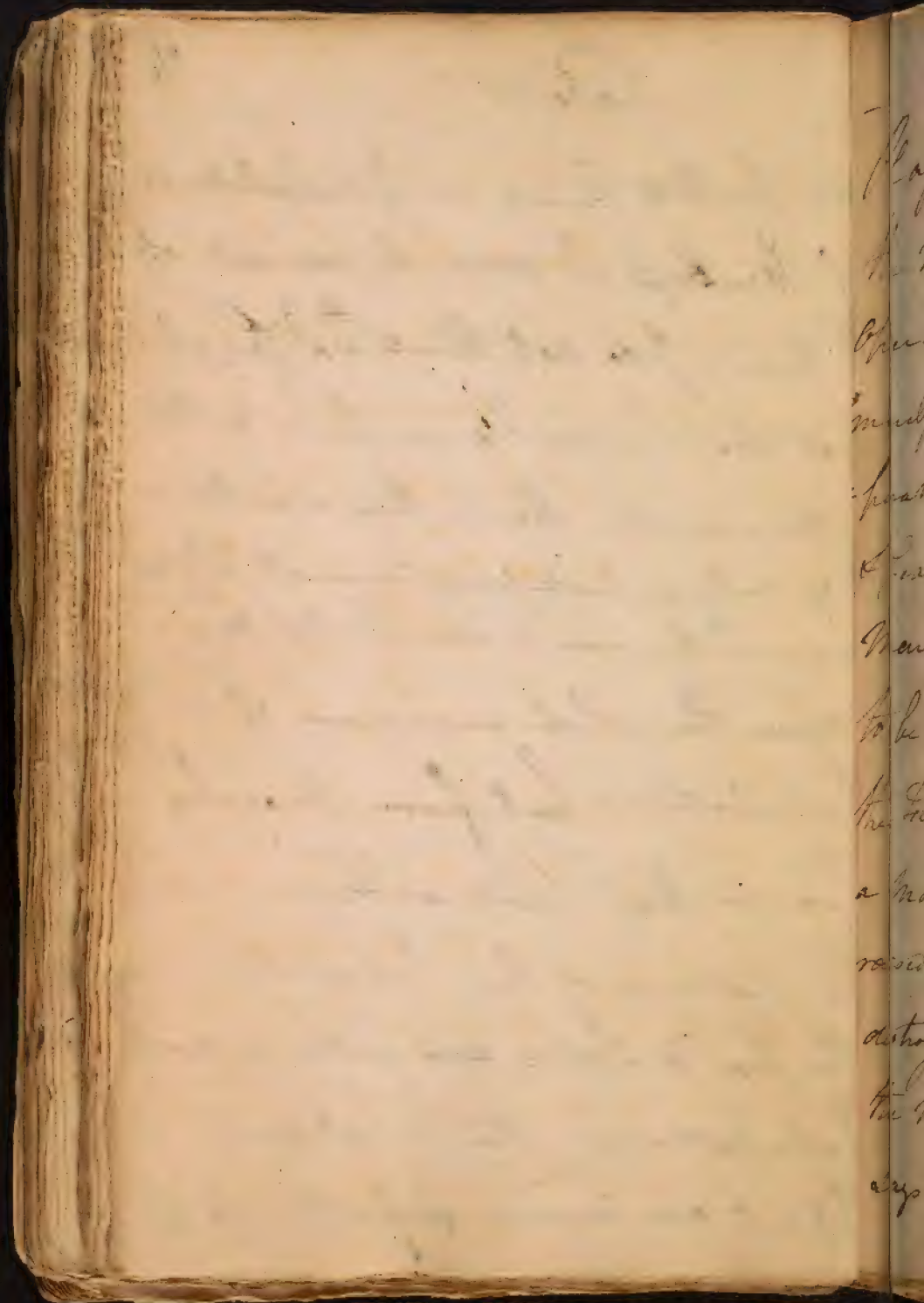


all putrid Fevers or  $\frac{1}{2}$  Inhabitants  
of Edinburgh w<sup>d</sup>. soon be carried off  
by them. I do not think w<sup>d</sup>. Dr. Pringle  
that the human Faces have Anti-  
septic Powers. There is then a certain  
Stage only in putrefying Animal Substan-  
ces in w<sup>h</sup>. they can produce putrid Fevers.

When the whole we know of no  
Exhalations but from Marshy  
Ground that produces Fever. w<sup>h</sup>. is

the Nature of these Exhalations?

the Sea & Lakes send forth no marked  
Exhalations. the Inhabitants of  
Egypt are never subject to the





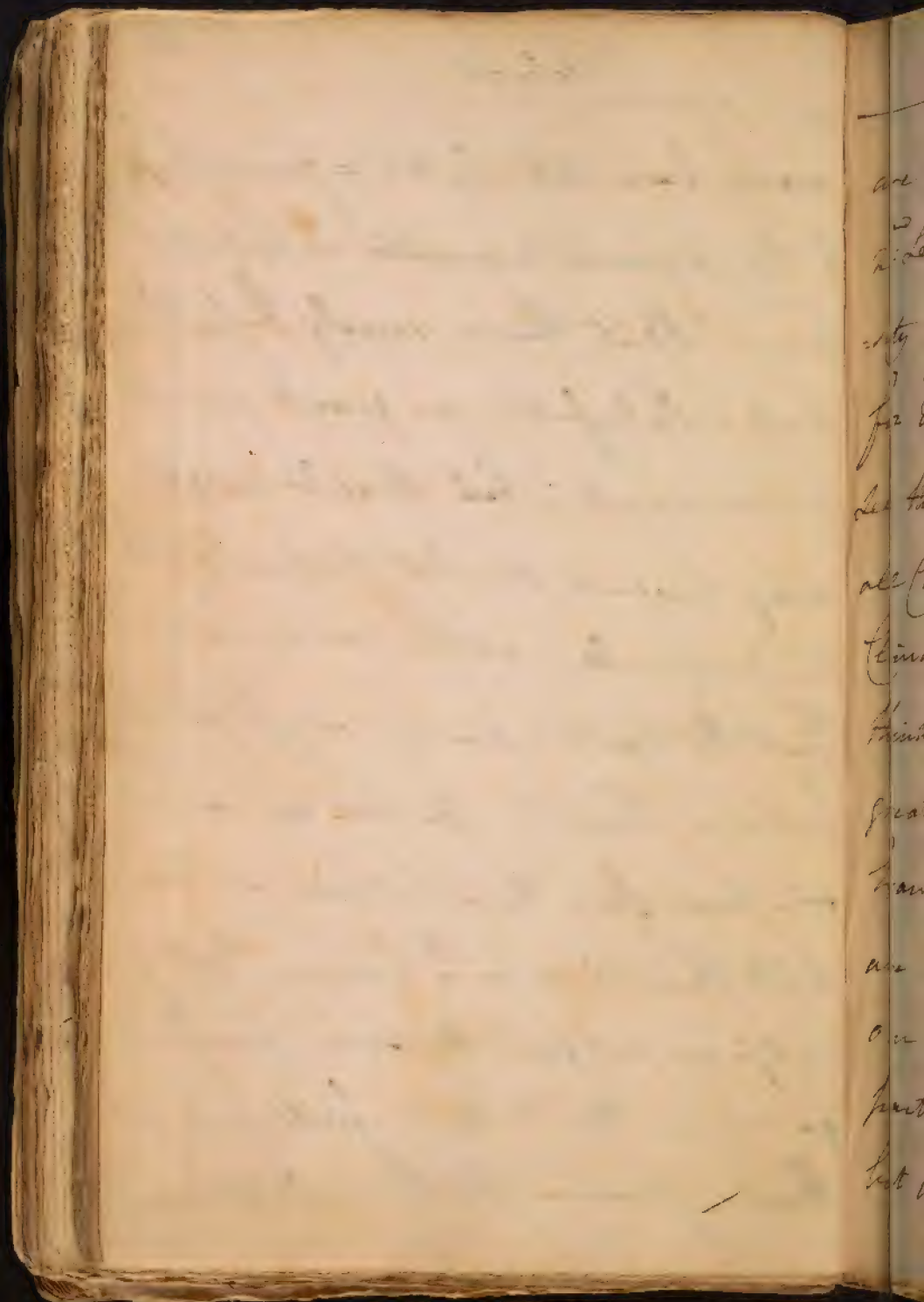
Plague but after the Recess of  
the Nile. How do these Exhalations  
operate? I have sometimes thought  
merely by the Cold generated by Eva-  
poration, but if this was  $\frac{2}{3}$  Low Lakes  
& Seas w<sup>d</sup> produce ~~as~~ fowers as well as  
marshy Ground. It appears rather  
to be owing to the semiliquid state of  
the Fluid retaining Miasmata in such  
a manner as to suffer them to be  
raised by Heat. Water seems rather to  
destroy them. we know but little of  
the Nature of these Miasmata. Lancisi  
says they are Organised & Inorganised



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many have attributed a great share  
to the Organized Micromata in producing  
Fever. But this is merely Hypothe-  
tical. Putrefaction we grant generates  
Animalcules. but Heat & Moisture  
may produce morbid vapours and  
Animalcules at the same time,  
the latter having any share in  
producing Fever. Besides we cannot  
suppose these Animalcules can mul-  
tiply themselves in  $\frac{1}{4}$  human Body  
unless we suppose the same process to  
go on in the Body as first produced  
them. I conclude then all Micromata





are Inorganised

2. Let us now enquire into <sup>the</sup> Diversity of Miasmata. There is a Foundation for dividing them into Fevers. we see them Operate uniformly on all Constitutions in all Ages & in all Climates in the same way. I do not think the Diversity of Contagions so great as Dr. Sydenham supposes. The Exanthematic Fevers show us <sup>that</sup> they are very much limited. ~~our~~ all our Acquaintance w<sup>th</sup> Diseases in all parts of <sup>the</sup> World has yet found out but 10 different ~~of~~ Genera of Contagious Diseases.

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to Language. But even this Compa-  
 ration is too extensive. I think they  
 may be reduced to 3 or 4. But even  
 supposing they 'dont exceed 10 Genera  
 they are very much limited. many  
 Fevers supposed to be different Genera are  
 varied rather in Degree than kind from  
 the Ferment (w. arise from Anim. Bodies)  
 being retained longer or shorter in the  
 Bodies it exhaled from, or from Circum-  
 stances of a like nature. by w. means  
 of ~~more~~ Ferments are more or less  
 exacted to use <sup>the</sup> Language of our Schools.  
 x many Circumstances diversifie <sup>the</sup> Language  
 = *cajones*



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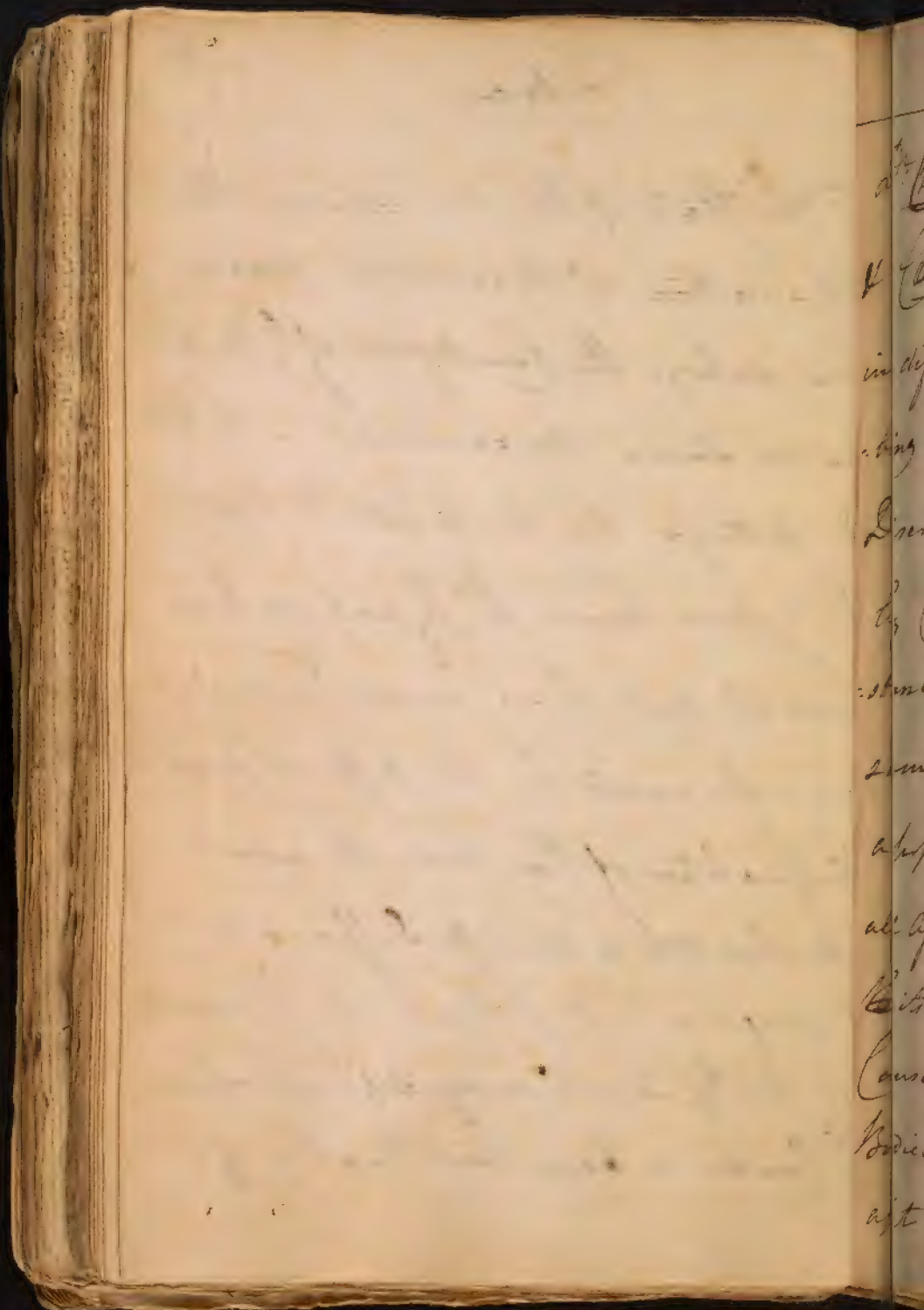
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independant of the different Degrees  
of Virulence in the Contagion.  
these Circumstances are <sup>or</sup> the  
Constitution of the patient. This  
is most evident in the Small pox. we  
often see the same matter produce very  
different pox in different Constituti-  
ons. the nature of Epidemics shows  
likewise how much <sup>e</sup> Diversity of  
Contagions depends on <sup>e</sup> Difference of  
Constitutions. Some of these Epidemics  
we see affect children only, some  
men & women. While Others affect  
Persons of a particular Country only.

2<sup>nd</sup> The  
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2<sup>nd</sup> The State of the Air varies the Operation of Miasmata. warm Air destroys the Contagion of  $\frac{c}{y}$  Miasmas in some Measure. & cold Air destroys the Miasmata<sup>th</sup> produce the yellow Fever. Dr. Sydenham has pointed out how much Epidemics are influenced by the different Qualities of the Air. He indeed attributes it to a specific Difference in the Contagion but I think all  $\frac{c}{y}$  variety of his Epidemics may depend upon  $\frac{c}{y}$  Causes we have been treating of.





D<sup>r</sup> Bohorne D<sup>r</sup> Lofti Lancisi  
& Celins Asurelianus who wrote  
in different Ages all agree in descri-  
bing the Fertian Fever as y<sup>e</sup> same  
Disease & varying in y<sup>e</sup> same manner  
by Changes in the Air & y<sup>e</sup> other Circum-  
stances we have spoke off. in the  
same manner the Bilious Fever  
appears to be y<sup>e</sup> same Disease in  
all Ages & Climates. this I prove fr  
its always being produced by y<sup>e</sup> same  
Cause viz. Exhalations from Animal  
Bodies or Marshy Ground. Books are  
apt to mislead us in their Histories of



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Epidemics. It is but within these  
100 Years that Authors have wrote  
<sup>but</sup> any Precision or Accuracy on  
this Subject & the more precise &  
accurate they are the more we are  
convinced of the restricted Number of  
the Genera & Species of Fevers.

3.<sup>d</sup> We come now to enquire into  
the Operation of Contagions.

This Operation is very limited.  
They dont affect Persons universally.  
nor Families nor Cities. This  
may be owing to several Causes such  
as 1.<sup>st</sup> Contagion is not always applied





to every Body or at least in ~~too~~  
weak a State. It is necessary Con-  
spires should be concentrated before  
they can produce their Effects. In this  
it bears a strong Relation to Mephi-  
tic Air & Exhalations in general  
<sup>or</sup> always act in proportion to their  
Degree of Concentration. we have  
many proofs of this being the Case. The  
Plague is not communicated to an ad-  
joining House unless there is some Inter-  
course by Furniture or Cloths or some-  
thing of a like nature. Dr. Lind's Treatise  
on Fevers & Infection is full of Facts

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of this kind. the Contagion must adhere to something in Order to concentrate it sufficiently to be propagated. Physicians seldom convey Contagion merely because they stay too short a time in their Patients Chambers to carry away any Degree of particles with them. all this tends to show the Reason why so many escape Contagious Diseases while they are prevailing. But another Reason must be assigned why Persons escape Contagions who are exposed to it. Other powers must concur to give



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the Contagium in its full force. W:  
are these powers? the Passions of  
Grief & Fear are the chief. Hence  
all Epidemics affect more Peo-  
ple in their Beginning than after  
they have continued for some time  
upon y<sup>e</sup> Acc<sup>t</sup>: of Mankind being  
more used to the Terror of them. we  
see too how Persons most subject to  
Epidemics who are most afraid of y:  
- both these Passions act by inducing  
Debility. Another power to be called  
in is the action of Cold. Dr Lind's Book  
is full of proofs of this. Does y<sup>e</sup> Cold

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act by inducing Debility or a Spasm?

I shall show hereafter perhaps in both ways. Every thing else that tends to bring on Debility such as venery - Insolation - Exercise -

Capula's &c tends to favour the Operation of Contagion. in all

Epidemics the Concurrence of these exciting Causes is necessary to promote the Operation of Contagion, & this is  $\frac{2}{7}$

Reason why so many people escape contagious Diseases. Some Contagions

I grant act independant of these exciting Causes, such as  $\frac{2}{7}$  Small pox.

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In some Cases too it is difficult to tell when the Concurrence of exciting Causes is necessary. It will often depend upon the virulence of the Contagion & the Vigour of the System to w: they are applied. It will be greatly influenced likewise by Contagions affecting the Solid.

When Contagions act as Ferments they require the Concurrence of no exciting Causes. hence the universal power of Exanthematic Contagions w: act as Ferments upon the Blood. Those Ferments w: have a less assimilating power require the Assistance of the exciting Causes.

Even those Contagions w: act universally



1821

The first of the month of January  
was a very cold day, and the  
wind was from the north-east.  
The snow was very deep, and  
the roads were very bad.  
We went to the market, and  
bought some provisions.  
The weather was very cold,  
and the wind was from the  
north-east. The snow was  
very deep, and the roads  
were very bad. We went  
to the market, and bought  
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We went to the market, and  
bought some provisions.

Ferments may in some Cases require exciting Causes especially When they are not sufficiently concentrated.

3.<sup>rd</sup> Contagions are still further resisted by the Bodies being in certain Conditions capable of resisting their Operation. These Conditions occur in certain Ages - Sexes & Temperaments. &c. History of Epidemics is full of proofs of this fact. The yellow Fever affects none but Foreigners. the negroes Dancing says are never Subject to it. They must therefore have something in their Constitutions <sup>th</sup> resists the Operation of Contagium. Some Persons too are more disposed

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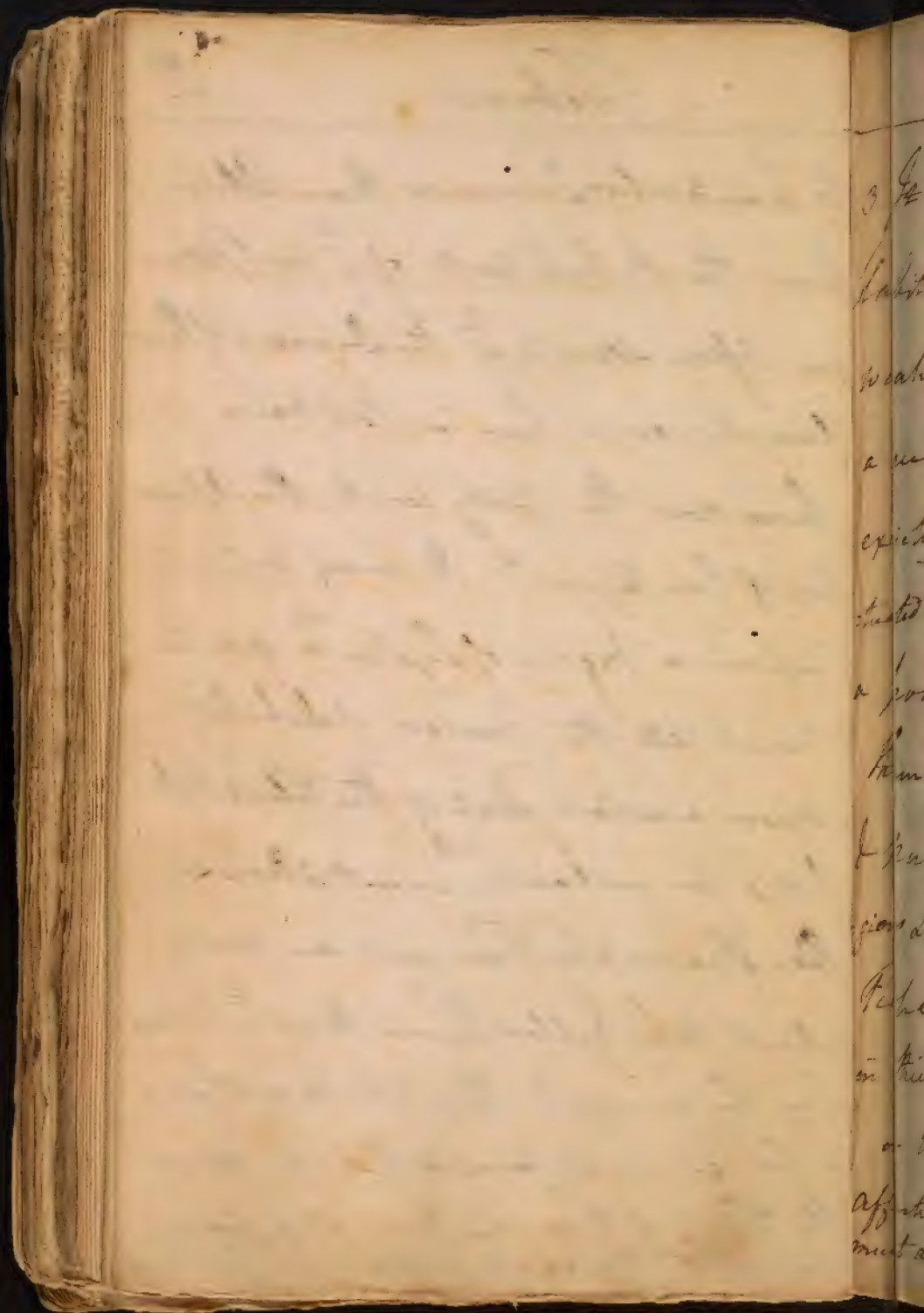
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to particular Diseases than Others.  
Thus the Inhabitants of  $\frac{2}{3}$  West Indies  
are often seized w<sup>th</sup> the Diseases of their  
Climates even here in Britain.

How does the Body resist the Opera-  
tion of Contagion? It may depend  
1<sup>st</sup> upon a Vigour of System w<sup>ch</sup> qualifies it  
to resist all the Causes of Debility.  
2 Upon a certain State of the Fluids  
fitted for certain Fermentations.

One Reason why Foreigners are more  
subject to  $\frac{2}{3}$  Yellow Fever than  $\frac{2}{3}$  Natives  
may be owing to their Fluids not being  
so far advanced towards Putrefaction as  
the Fluids of those who have long been  
exposed to the oppressive Heat of  $\frac{2}{3}$  Sun.





It may depend upon <sup>the</sup> power of  
habit. all Impressions have their Force  
weakened by Repetition. If men have  
a certain vigour of System & escape the  
exciting Cause they become so habit-  
uated to the Contagium that it requires  
a powerful Quantity of it to affect  
them. It is from this, that Physicians  
- Nurses are seldom affected w<sup>th</sup> conta-  
gious Diseases. May not the Reason why  
People are seized w<sup>th</sup> Contagious but live  
in their Lives be owing to <sup>the</sup> Force of Habit  
or to their nervous System being some  
affected w<sup>th</sup> by Contagion? But to this we  
must add y<sup>t</sup> Solids are capable of forming but  
one.



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1<sup>o</sup> It may depend upon Persons being exposed to Odors of a particular nature w<sup>ch</sup> prevent the action of Contagion. we have many facts w<sup>ch</sup> tend to confirm this Conjecture. the Influenza w<sup>ch</sup> prevailed so universally in  $\frac{2}{3}$  Year 1734 never affected the People confined in the Goals of Din<sup>w</sup>, w<sup>ch</sup> I believe was owing to their being surrounded w<sup>th</sup> Doors of a peculiar nature.

Let us now speak of  $\frac{2}{3}$  Other Causes of Fever. viz Fear & Cold Fear. This act powerfully in inducing Debility. It sometimes produces Fever

your most humble servant  
John Jay  
to the Honble the President of the United States  
New York  
1790  
I have the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the appointment of a Secretary of the Treasury. I have the pleasure to inform you that I have the honor to be appointed to that office. I am, Sir, very respectfully,  
Your obedient servant,  
John Jay

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of a permanent nature.

Cold. you all know  $\frac{c}{y}$  modus Oper.  
endi of this Cause. I shall only  
inquire whether Cold is a frequent  
or only cause of Fever? From the  
Phaenomena of Cold Bathing it appears  
probable. But its Effects here are  
very transitory unless Fear & Surprise  
concur w: it. I believe it seldom  
produces a permanent Fever alone.

For <sup>ex</sup> in most Cases where we are sure  
of its Operation we see nothing but  
Catarrh & Rheumatism & never  
a proper Fever. Even in those Cases  
where  $\frac{c}{y}$  Cold is suspected of acting

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alone. Other Causes may have cooperated  
such as Miasmatal Contagion for we  
often see Contagions adhere very long  
to certain Bodies, & yet excite no Effects  
upon the persons who has carried  
them about w<sup>th</sup> them, unless they have  
been transferred to Other Persons or  
to Other Countries. Contagions are  
very tenacious in  $\frac{e}{y}$  same manner as  
Odors w<sup>ch</sup> we know continue on Bodies  
for a 100 Years. now as this is  $\frac{e}{y}$  Case  
the Effluvia of Animal Bodies may be  
accumulated in the Cloaths in such  
a Degree as to act at Once when the  
exciting Causes we spoke off occur

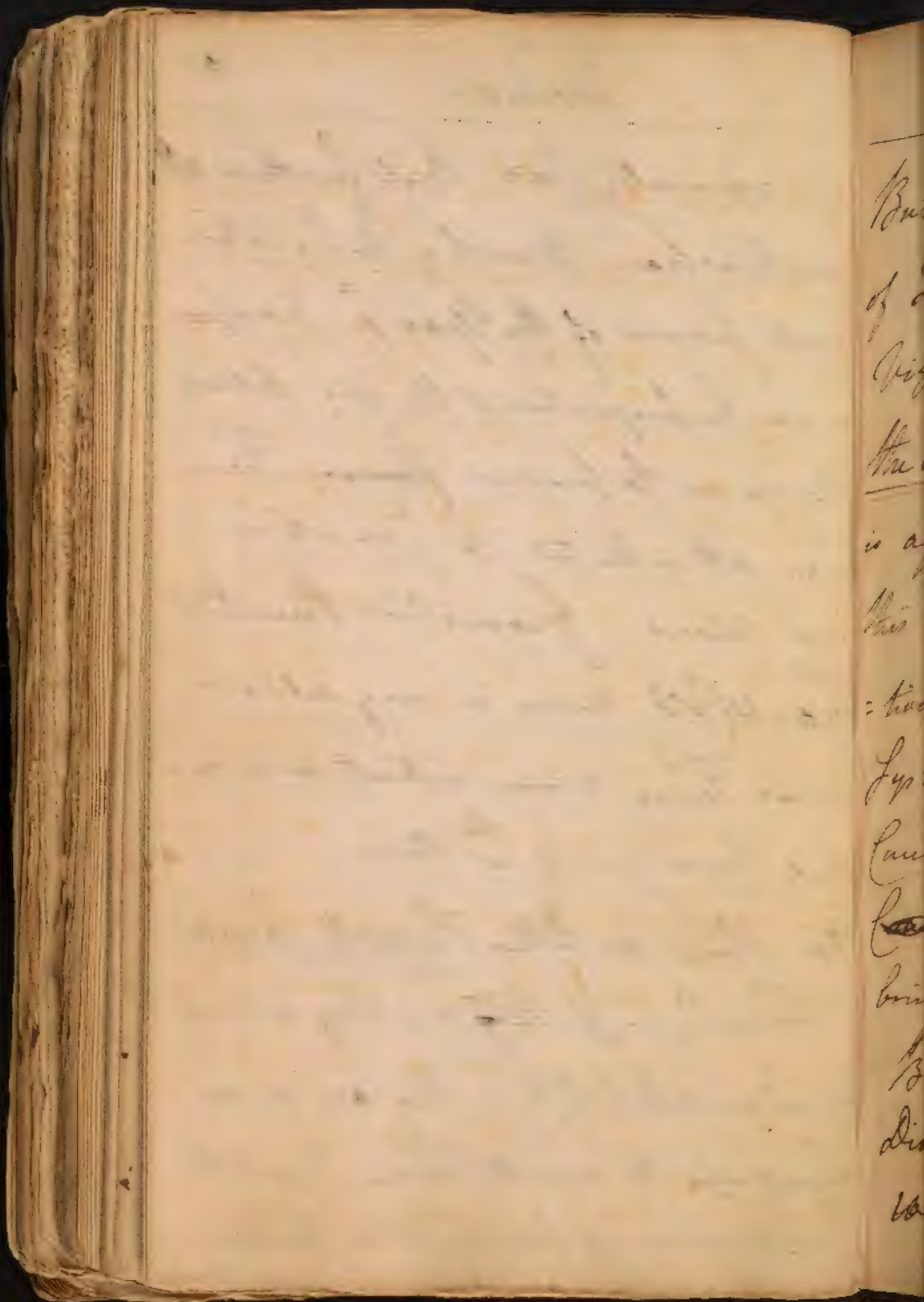


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more especially Cold. But further all  
Countries have Marshy Inhalations  
at all Seasons of the Year w<sup>ch</sup> may pro-  
duce an Impregnation of the Air to such  
Degree as to produce ~~Fevers~~ Fevers  
w<sup>ch</sup> are attributed to <sup>e</sup> existing  
Causes alone. I conclude then that  
Heat & Cold never or very seldom  
produce Fever alone without some ex-  
isting Cause joined w<sup>th</sup> them.

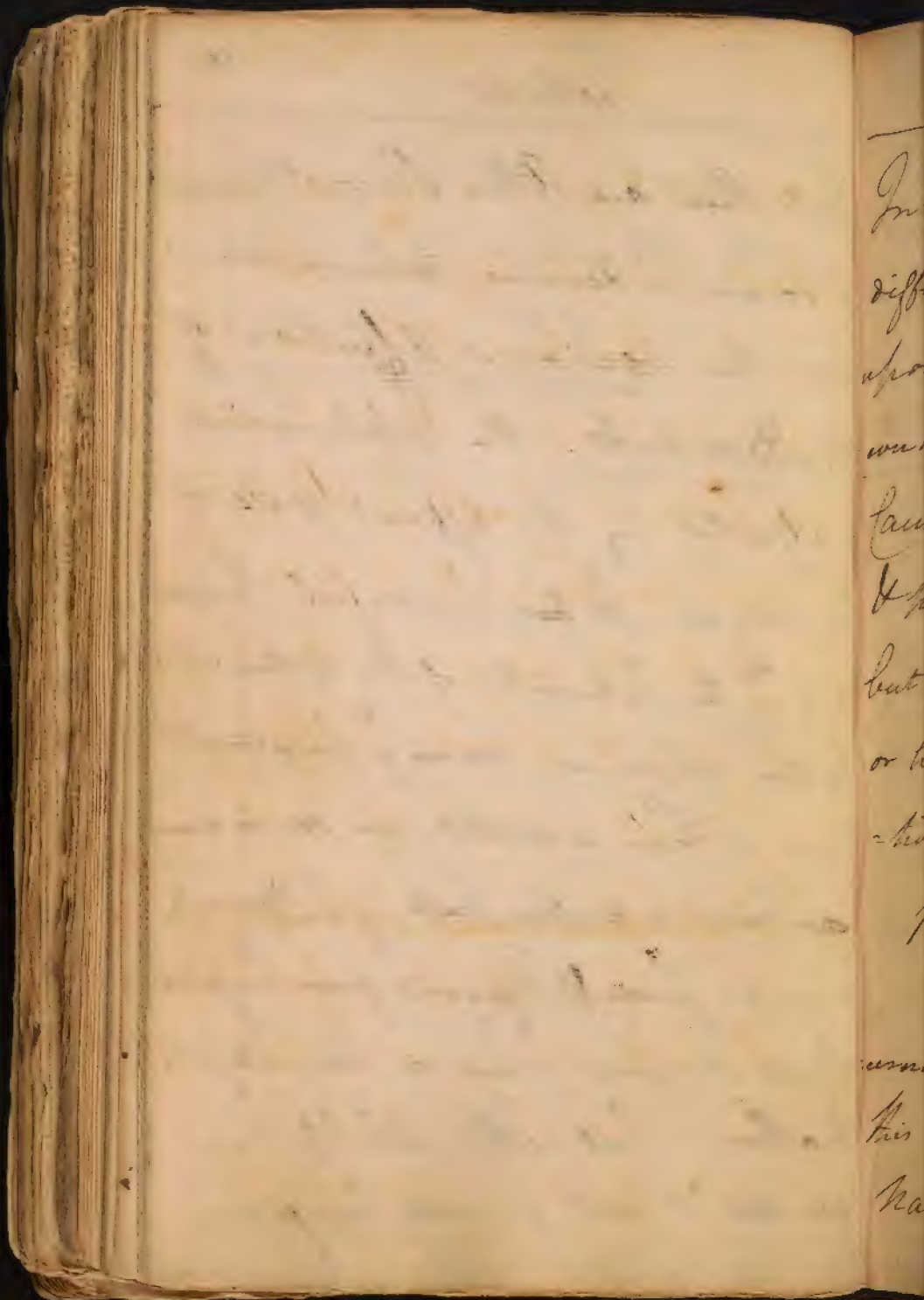
Are there no Other Remote Causes  
of Fever? - If ~~they~~<sup>they</sup> are they act only  
by inducing Debility. They are never  
strong n<sup>o</sup> to excite Fever w<sup>th</sup>out the  
Concurrence of Cold or Other Causes.





But there are Other Remote Causes  
of Fever w<sup>h</sup> deserve to be considered  
viz: the various Affections of  
the Stomach. the whole System  
is affected by the different states of  
this viscus. It has a powerful Connec-  
tion w<sup>th</sup> the Extremities of the Arterial  
System where we know y<sup>e</sup> proximate  
Cause of Fever is seated. we see in many  
~~case~~ Cases a certain state of y<sup>e</sup> Stomach  
bring on Spasm & Pyrexia from Congestion.

But it never brings on the phlogistic  
Diathesis, but rather Debility. hence  
we see it most generally brings on





Intermitt & Fever. This is a very difficult Question It is some Blemish upon our Doctrine of Pyrexia. I consider it however as a Remote Cause of Fever. Crapulas Indigestions & particular Foods all bring on Fever but whether they all act in One way or have something peculiar in their Operation I cannot pretend to determine. —

~~Before I proceed any farther I shall~~

Let us now speak a little concerning the different Species of Fevers, & this we shall do by treating of the Nature of Epidemics. —



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Epidemics depend upon some matter  
in Diet or the Air applied to a great  
number of People at Once. Thus the  
Leucy depends upon Diet, <sup>th</sup> is a kind  
of Epidemic but must not be conside-  
red here as it does not belong to Fevers.

I shall likewise Exclude all Fevers produ-  
ced by Diet, as they are properly all of  
them Symptomatic.

I shall speak only of Epidemics  
as arising from the Air. They may  
be produced either 1<sup>o</sup> by <sup>2</sup> sensible  
Qualities of the Air, or 2<sup>o</sup> by <sup>2</sup> insensible  
Qualities of the Air. D. Winttingham





attributes all Epidemics to  $\gamma^c$  first  
Cause. Dr. Sydenham imputes them all  
to the last Cause. Dr. Boerhaave too  
I think leans to Sydenham's Opinion.

The sensible Qualities of  $\gamma^c$  Air mo-  
dify the Epidemics arising from  $\gamma^c$  last  
Cause. the sensible Qualities of  $\gamma^c$  Air  
<sup>2</sup> if we shall speak off are Heat & Cold  
Moisture & Dryness. Heat & Cold  
have the chief & almost only Effects.  
Moisture & Dryness act by modifying the  
Heat & Cold by determining their Influence  
& varying their Operation. Heat produ-  
ces the Diseases of Summer & Cold  $\gamma^c$  Diseases  
of Winter. Heat joined w<sup>th</sup> Moisture





produces putrid Diseases. Moisture join-  
 ed w: <sup>the</sup> Cold increases its Effects by the  
 Evaporation induced as Chemistry tea-  
 ches us. Cold by increasing the Tension  
 of the Solids, gives Occasion to  $\frac{e}{y}$  Phlogis-  
 tic Diathesis, & hence Inflam<sup>n</sup>: Dia-  
 theses are generally produced by Cold, &  
 prevail in the winter & Spring. Heat  
 by relaxing the Arterial System takes  
 off the Inflam<sup>n</sup>: Diathesis, & increases  
 a putrid Tendency altho' it may not  
 of itself be able to produce a putrid Fever  
 w<sup>th</sup>out the Concurrence of Miasmata or  
 Contagion. By increasing Perspiration  
 it makes  $\frac{e}{y}$  Humors acid w: may



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dispose them to putrid Fermentations,  
or to be affected by their own Miasmata.

From Warmth applied long  $\frac{2}{3}$  Body  
the Bile is apt to become acid, &  
to overflow in the Intestines, hence the  
Reason why Cholerae are so frequent in  
the Dog-days. Is  $\frac{2}{3}$  Bile itself chan-  
ged or is its Acrimony occasioned by  
Perspiration being affused to it? I  
shall not here determine this Question.

This Afflux of Bile into  $\frac{2}{3}$  Intestines  
should not always to be considered as  
Cause of autumnal Diseases; from as  
we said before of Intermitting Fevers  
it may be considered rather as an Effect than

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a Cause of Diseases. Heat suddenly  
winning on stimulates the System &  
thus brings on  $\frac{2}{3}$  Inflamm<sup>n</sup>. Diathe-  
sis. hence the Reason why Intermitt.  
are changed into continu<sup>e</sup> fevers upon  
the Approach of Summer. From all this  
you see the Reason why Inflamm<sup>n</sup>?  
Diseases prevail in winter & Spring  
& putrid & Bilious in  $\frac{2}{3}$  Summer &  
Autumn. Heat favours  $\frac{2}{3}$  Rise &  
propagation of Contagion. Cold tends  
to destroy it. & renders our Solids  
less apt to ferment w<sup>th</sup> Contagion. for  
a further Acc<sup>t</sup> of the sensible Qualities  
of the Air I would recommend to you

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Dr. Winthrop's Epidemics but be  
careful to avoid embracing such notions  
from him as will lead you to reject the  
existence of Miasmata producing Epidemics.

I go on to speak of  $\frac{2}{7}$  insensible  
Qualities of the Air or of Miasmata.  
these are more important than those  
we have been speaking of, & affect  
a much greater part of Mankind.

Diseases depending on Miasmata are  
universally contagious notwithstanding  
Disputes that have been maintained  
to the contrary.

There are certain specific Contagions <sup>which</sup>  
are endemic in some places of  $\frac{2}{7}$  world



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from whence they may be propagated;

But we are uncertain of their true  
Nature & Origin. The small pox mea-  
sles & a few others <sup>are</sup> of this nature.

They are of a stimulating & sedative  
Nature, & are disposed to unite w<sup>th</sup>  
Other Contagions. The Plague is a  
specific Contagion. This I prove from  
its being always endemic in some  
places. It has never reached Ameri-  
ca nor the East Indies. It is always  
peculiar to the Turkish Dominions.  
It is not produced by the Customs of  
the East Turks, as some have sup.

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found for in many parts of Turkey  
it now has been known. There  
are many Diseases <sup>which</sup> resemble the Plague  
in having Buboes - Anthrax & Carbun-  
cles from <sup>which</sup> we may suppose that  
the Plague is only a diversified species of  
the putrid Diseases.

There are few Other Specific Conta-  
gious except these. The Yellow Fever  
however Junagris is another species.  
It is certainly a contagious Disease & its  
Symptoms are ~~to~~ widely different from  
the Bilious Fever. All the Other varieties  
of Epidemics are to be reduced to two.

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Species only. such as are propagated  
by Contagium evident to our Investigation  
~~to~~ or from Fomes. or 2<sup>nd</sup> Such as  
depend on  $\frac{2}{y}$  sensible Qualities of the  
Air.

~~add~~ we shall first treat of those  
Epidemics w: arise from human &  
marshy Effluvia. I would restrict  
the Effluvia w: produce Diseases among  
men to  $\frac{2}{y}$  human Species only as  
Brutes are never affected at  $\frac{2}{y}$  same  
time w: it, nor are mankind affe-  
cted w: the Epidemic Diseases of  
Other Animals. we have Instances at  
Mariscles of Dogs licking the sores



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of Persons affected w<sup>th</sup>  $\frac{2}{y}$  <sup>th</sup> Plague woud  
receiving it from them.

Both these Effluvia from human  
Bodies & marshy Ground have  
3 Effects upon  $\frac{2}{y}$  Body 1<sup>st</sup> Sedative  
2<sup>nd</sup> Stimulating & 3<sup>rd</sup> Septic. by the 1<sup>st</sup>  
they act on  $\frac{2}{y}$  nervous system. by the  
2<sup>nd</sup> on the sanguiferous & by  $\frac{2}{y}$  3<sup>rd</sup> on the  
Fluids. the human Miasmata <sup>are</sup> ~~is~~  
more directly sedative & have sti-  
mulat<sup>g</sup> power joined w<sup>th</sup> ~~the~~ <sup>the</sup> ~~the~~ <sup>the</sup> makes them  
produce a continual fever. <sup>the</sup> Septic  
powers are less evident. the Marshy  
Miasma is less stimulating & hence

I have been thinking of you  
 very much lately and wondering  
 how you are getting on. I hope  
 you are well and happy. I am  
 feeling better now than I have  
 done for some time. I am  
 still a little weak but I am  
 getting on my feet. I am  
 very glad to hear from you  
 and hope you are all well.  
 I am your affectionate friend  
 and will write again soon.

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it generally produces Intermit<sup>t</sup>.  
 Fevers. the human Miasma gives  
 the nervous Fever w<sup>h</sup> in its Beginning  
 may be inflamm<sup>t</sup>. the Marshy  
 Miasma is less sedative, or it proves  
<sup>so</sup> only by its septic power or by  
 multiplying itself in the body. the  
 septic power is sometimes combined  
 w<sup>h</sup> <sup>the</sup> stimulat<sup>t</sup>. & thus changes Inter-  
 mitting into continued Fevers. the Sail  
 Fever comes from human Miasmata  
 - the Yellow Fever arises from Marshy  
 Miasmata, & hence its putrid Disposition.  
 - the Camp Fever comes from <sup>the</sup> human  
 - the Marsh Fever from <sup>the</sup> Marshy Mias.

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mata I acknowledge notwithstanding <sup>g<sup>2</sup></sup> y:  
it is very difficult to distinguish these  
Diseases from their Sources. in their  
fundamental Qualities they seem like  
~~be~~ One another, & according to Dr.  
Pringle may be combined toge:  
ther. See p. 296 of the 4<sup>th</sup> Edition of his Works.  
- You will easily see from this how  
much Epidemics may be varied by y:  
different Degrees of Sedative & Stimulat:<sup>o</sup>  
Septic Qualities w<sup>ch</sup>. Miasmata possess,  
or by different Miasmata being combined  
together. Miasmata are further varied  
by the sensible Qualities of the Air, or



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by the peculiar Constitutions of  
Men. some favouring the Sedative

Others the Stimulating & Others Against  
the septic power of miasmata. These

Notions may appear Theoretical,

but they are founded on Facts, & will

lead us to arrange Diseases in a  
regular Nosology as we shall see

more fully in the Cure of these Diseases.

I would not however push these prin-

ciples w<sup>th</sup> too much Rigour. There are one

or two Contagious w<sup>th</sup> are of a Specific na-

ture & are not reducible to any of these

heads. the 1<sup>st</sup> is the catarrhal Contagion.

- it is disposed to associate w<sup>th</sup> those

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Fluid<sup>ch</sup> is: furnish the mucus of the  
nose - bronchia & Larynx. it generally  
irritates & inflames the mucous Mem-  
brane of these parts & produces Anginas  
Catarrhs & Cough. all Europe seems  
sensible of such Contagious from y.  
Frequency of Influenza's of late among  
mankind. I have seen 4 of them my-  
self. Sauvage calls it Synocha Catar-  
halis, but has overlooked many Exam-  
ples of <sup>it.</sup> It has at all times been con-  
tagious. it occurred in y<sup>e</sup> 1510. & several  
times in the two succeeding Centuries, & is  
described by Hoffman Wintringham J. Barham  
& some Others. there is no Disease

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effects so universally. the miasmata  
 seem to be diffused in the air, & propagate  
 the disease <sup>almost</sup> without Contact, but  
 not so rapidly or at such a distance as  
 some suppose. It generally appears  
 in the winter season, & has a good deal  
 of the Inflam<sup>n</sup>: Diathesis joined <sup>to</sup> it.  
 - an Obstruction of Perspiration is necessary  
 to bring on the Disease. It sometimes  
 prevails w<sup>th</sup>out bringing on Inflam<sup>n</sup>:  
 on <sup>the</sup> mucous glands. in these cases it  
 produces miliary Effluvescences. in <sup>the</sup>  
 summer it appears in this manner  
 It depend upon the warmth keeping  
 up the Determination to the skin. may



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not all military Infections be the  
Catarrh differently modified by  $\frac{2}{y}$  Heat  
of Summer? w: seems to favour  
this supposition is  $\frac{2}{y}$ : most military  
Fever are attended w: <sup>the</sup> Catarrhal  
Symptoms. In all Cases where a whole  
Family is seized at Once w: <sup>the</sup> a cold word  
in the air,  
the concurrence of Cold & Moisture <sup>in the</sup> Galways  
suspect the Operation of Contagion.  
- There appears to be a catarrhal Con-  
tagion always lurking about us. It is  
now a well established Fact that the  
Inhabitants of St. Kilda are all seized  
w: a Catarrh in a few days After a  
Stranger lands among them.

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There is another specific Contagion  
in this Genus to be spoken of viz: the  
Dysenteric Contagion. I believe it  
always arises from marshy Effluvia  
but may require a certain Concur-  
rence of a particular state of Bile  
or of the Mucus of the Intestines  
to produce it. we have  $\frac{2}{3}$  most  
undoubted proofs of its depending upon  
marshy Miasmata from Dr. Pringle &  
Dr. Coghorn. It generally coincides  
w<sup>th</sup> the tertian Fever, or occurs at y<sup>e</sup> same  
season w<sup>th</sup> it. of this we have a striking  
Example in Coghorn's Treatise of the  
Diseases of Minorca. from this

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I am induced to believe that both  
Diseases depend upon one common <sup>specific</sup>  
Origin or upon the same Miasmata.  
we find they resembled & were changed  
into each other, & were in a like  
manner both cured by  $\frac{c}{2}$  Bark.  
Dr Pringle has some Observations  
in S. 3. Ch. 6 part 3. w: tend to confirm  
his Opinion, Altho' he seems unwill-  
ing to draw the same Conclusion from  
them. a late Professor at Göttingen  
in a Treatise de "Morbo Mucoso" w: is  
nothing but a Dysentery has likewise  
fully proved  $\frac{2}{1}$  the Fetus & Dysentery  
depend upon  $\frac{c}{2}$  same Marsh Miasmata.



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In this view therefore the Dysentery  
is not to be considered as a Specific  
Contagion, nor does it subsist at all  
times like Other Contagions, but is  
annually produced. This Contagion  
when it is turned into a Dysenteric  
nature however produces Dysenteries  
only from having undergone some change  
in the body, & not Tertians. This finishes  
all I had to say upon Epidemic Con-  
tagion. I shall briefly recapitulate  
all <sup>it</sup> has been said on this subject.

The Diseases produced by <sup>the</sup> sensible  
Qualities of the Air are very few. Pleuritis  
Pneumonias are almost <sup>all</sup> only -

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Diseases produced by  $\frac{e}{y}$  sensible Qualities of the Air.

Most of Epidemics depend upon Contagious <sup>ch</sup> w: are Exanthematic & Catarrhal. There may be others <sup>ch</sup> w: have escaped my Reading & Observation.

Many Epidemics depend upon Contagious <sup>ch</sup> w: are Occasional, <sup>ch</sup> w: may be produced at all times & in all places. They arise from  $\frac{e}{y}$  human Body & Marshy Ground.

Epidemics may arise from either of these, or from both combined together, or from either of them or both uniting <sup>the</sup> w: specific Contagions.

Epidemics will be varied by the

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sensible Qualities of the Air & by the different States of <sup>the</sup> Constitutions of Men. all the Modifications of ~~the~~ <sup>the</sup> Miasmata & Contagion may be reduced to Laxative. stimulating & Septic powers, & all Epidemics will be varied by the greater or lesser Predominance of one of these.

There is a curious Problem started of late Years concerning Epidemics. i.e. that they were much more frequent in ~~some~~ former Years than <sup>at</sup> present. Boham & Morton abound w<sup>th</sup> Descriptions of Epidemics. Pringle wonders where they got them from. the Reasons of this



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growing <sup>in</sup> to fewer human miasmata  
being generated ~~at~~ present than  
formerly from People's living as-  
sembled together. 2<sup>nd</sup> to our Cities being  
kept much cleaner than formerly espe-  
cially in England. 3<sup>rd</sup> People are less  
confined to their houses than formerly  
- the Paving of Streets & <sup>the</sup> use of Carri-  
ages have invited People more abroad  
of late years. 4<sup>th</sup> the great Change in  
our Diet makes our Bodies less apt to  
generate in to receive miasmata. Re-  
giments are now purchased so cheaply  
that poor as well as rich in some Coun-  
tries live on them at present. 5<sup>th</sup> the





use of Sugar has likewise tended to  
diminish the Effects of human Mi-  
seria as well as to prevent their Gene-  
ration 6<sup>th</sup> Greater Attention is paid  
to our Gaols & Hospitals than former-  
ly from whence we know so many  
Contagions take their Rise 7<sup>th</sup> the  
Improvements ~~of~~ in Agriculture  
have tended to diminish the Quantity  
of Marshy Ground. a very fruitful source  
of Miasmata! 8<sup>th</sup> We are less exposed  
to occasional Causes ~~as~~ than our Fore-  
fathers from  $\frac{1}{2}$  greater Compactness of  
our Houses. & greater plenty of Fuel among  
us. I tho't it of Importance to point

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but these things, that we may in w.  
manner to proceed in shewing y<sup>e</sup>:

Rage of Epidemic Diseases.

Let us now consider the periodical  
motives of Fevers. This a subject of  
importance than it was formerly  
from our depending life upon the  
Operations of Nature. But still it  
deserves to be attended to.

we shall 1<sup>st</sup> enquire into y<sup>e</sup> Facts them-  
selves & 2<sup>nd</sup> into y<sup>e</sup> Reason of them.

All Physicians agree in y<sup>e</sup> periodical  
Movements of Fevers, more especially  
the Ancients from Hippocrates down-  
wards. Oslepiades was y<sup>e</sup> first who



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of the critical Days, or at least of  $\frac{2}{3}$   
 general Rules of Hippocrates <sup>the</sup> w. Re.  
 as to quartan & septanian Days. I  
 believe he maintained their periodical  
 motions notwithstanding. What Period do  
 Fevers observe more steadily? The Ancients  
 agree in their Period, altho'  $\frac{2}{3}$  Moderns  
 disagree about them <sup>in</sup> w. is owing to their  
 living in more ~~south~~ northern Countries.  
 Most of our eminent Practitioners  
 however have believed in them, & most  
 of them agree in certain Days. Histories  
 of Diseases abound w. <sup>the</sup> proofs of this. all  
 negative assertions to  $\frac{2}{3}$  contrary are of  
 but little weight. we shall inquire





Therefore into these Days. unhappily!

we have been too much led by Hippocr.

ates in pointing them Out. who is

indeed often contradictory in his Au<sup>r</sup>:

of them, <sup>th</sup> w: may be owing to many of

his works being spurious, & many of

them <sup>th</sup> w: are his own having suffered by

being transcribed. Hippocrates himself

too is to be suspected of being biased to

Pythagoras: Harmony of numbers <sup>th</sup> w:

may have led him to set down some

things from Theory only. He was besides

too apt to form general principles.

in the 36<sup>th</sup> Aph: of B. IV. he marks out

<sup>th</sup> w: is the <sup>th</sup> h <sup>th</sup> h <sup>th</sup> h <sup>th</sup> h <sup>th</sup> h

0 - 3 - 5 - 7 - 9 - 11 - 14 - 17 - 20 as critical

days. There is but One Difficulty in

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admitting these Days. i.e. of Hippocrates says that critical Days occur Only on the odd Days. now here we see several even Days. He says too that the Critics of Fevers happen on Quarters or Septanarian Days. But this arose from his Theoretical notions. It is therefore left to be attended to. all Physicians agree in the Days Hippocrates has pointed out. Hucan & D. Martin who made many Observations upon critical Days both agree in general upon these Days.

Why are the movements of Fevers in this manner? This is a most difficult Question. but we shall attempt it. They appear to be founded upon some Law of <sup>the</sup> Animal



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Reconomy. the human Body is subject  
to diurnal Revolutions, & once every 24  
hours becomes in every Respect Alie.

The ~~Less~~ Excretions by Food & most  
of our Appetites are in some Measure  
diurnal. the Fundamental powers of  
the Body are not subject to any great  
variety, but are nearly  $\frac{2}{3}$  same in all  
Systems. the least Deviation in any of the  
Excretions is followed by a contrary  
State of the Body. thus Excess is suc-  
ceeded by Defect, & an increased Quantity  
of Food, by an increased Excretion of  
Urine & stool. from this we see  $\frac{2}{3}$  Systems  
has a power of preserving its ~~own~~ own  
Balance. But Further, the human

I have just received from  
 your letter of the 10th inst.  
 and am glad to hear that  
 you are well and happy.  
 I am well and hope this  
 letter finds you the same.  
 I have not much news to  
 write at present but I will  
 write again soon.  
 I am, dear friend,  
 ever your affectionate friend,  
 J. H.

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Body is greatly subject to  $\frac{2}{y}$  power of  
Habit <sup>in</sup> determines the Degree Velocity &  
the Order of all our Actions. from this,  
any One Action may become periodi-  
cal merely from the power of Habit.

The Oeconomy is most uniform in  
its Beginning, hence young subjects  
are most disposed to  $\frac{2}{y}$  power of Habit.

- The human Body is besides this expo-  
sed to  $\frac{2}{y}$  Influence of several Bodies around  
us <sup>in</sup> are periodical, especially the Sun

& Moon. the Sun more especially Operates  
upon our Bodies. we are sure of its  
Influence tho' we cannot say how its Acts.

- within the Tropics the Operation of  
the Sun is more evidently Observed upon





the Act of his shining more directly.  
 - the brightness of Heat & Cold. Light &  
 Darkness. as well as  $\frac{2}{4}$  States of  $\frac{2}{4}$  Air  
 are <sup>more</sup> constant in those hot Climates.  
 & hence the Sun's Action is less inter-  
 rupted, & periodical Revolutions in  $\frac{2}{4}$  Sys-  
 tem are more easily observed in for-  
 eign than in Northern Countries.

The nervous System is the chief Seat of  
 Habit, & I believe the Operations of  
 Habit are confined to  $\frac{2}{4}$  Sensorium Al.  
 - the Secondary Effects of Habit appear  
 in the Other Functions, more especially  
 in the Sanguiferous System. the Pulse  
 is slower in  $\frac{2}{4}$  Morning - Quicker



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at noon - is slow in  $\frac{1}{2}$  Afternoon  
& quicker in the Evening. for a  
full Ac<sup>t</sup> of these Facts see Dr Robinson's  
Animal Economy. I think we may  
confide in them, Altho' his Experiments  
were not made w<sup>th</sup> all  $\frac{1}{2}$  Accuracy we  
could wish. The Vacillations of the  
Pulse are sufficient Demonstrations  
of the Truth of them. I have Observed  
a Quickness of Pulse from 10 to 20 Beats  
in Health w<sup>ch</sup> could not depend upon  
Diet as the Quickness of Pulse in  
Dr Robinson's Experiments might have  
done.

All Intermittents come on in the  
Forenoon, & generally finish their

1783

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Paroxysm in 12 hours. These regular  
Exacerbations appear to be founded  
on the diurnal Revolutions of  $\frac{1}{2}$  System.

- But the System is disposed to regular  
Periods once in the 48 hours likewise  
from Causes <sup>wh</sup> I cannot explain.

- I infer it from  $\frac{1}{2}$  <sup>vigilance</sup> ~~uniformity~~ of  
the Tertian Fevers, <sup>wh</sup> we often see  
prevented even in continual Fevers.

- Quartans depend upon a less irri-  
tation of the System as contin: Fevers

depend upon a greater or upon the  
Inflamator: Diathesis. The notion of

$\frac{1}{2}$  Dies Empores of Hippocrates has some  
Foundation from  $\frac{1}{2}$  great Disposition

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<sup>th</sup> w: Fevers have to  $\frac{2}{y}$  Tertian Type.

Quartans never occur in  $\frac{2}{y}$  Spring  
nor Summer from  $\frac{2}{y}$  Presence of Stimul<sup>ts</sup>  
b: from Cold & Heat. they occur only  
in the Autumn when the system is  
subject to less Irritation.

Nature we see then affords periodical  
motions <sup>th</sup> is evident from  $\frac{2}{y}$  Phenome-  
na of Intermitt<sup>ts</sup> Fevers. we presume  
these motions <sup>are present</sup> in continual Fevers <sup>th</sup>  $\therefore$

Because contin<sup>ts</sup> Fevers are naturally  
intermittent till <sup>th</sup> some stimulating  
power occur <sup>th</sup>  $\therefore$  then <sup>th</sup>  $\therefore$  render them  
continual. <sup>nd</sup> Because their Termina-  
tions happen upon regular Days <sup>th</sup>  $\therefore$



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connects w<sup>th</sup> the tertian or Quartan type.

3.<sup>rd</sup> They have their exacerbations & Remissions upon the critical Days of Hippocrates. They are tertians

in the Beginning, but as y<sup>e</sup> System becomes weak they assume y<sup>e</sup> Form

of Quartans w<sup>ch</sup> is generally About y<sup>e</sup> 11<sup>th</sup> Day. — 4.<sup>th</sup> They have exacerbations & Remissions twice a day w<sup>ch</sup> I believe

arises from the Influence of y<sup>e</sup> 2<sup>d</sup> Jun.

The Attention to Indications of Cures in fevers tends much to illustrate the Method of Cure.

To come at this I began the curious Question of nature's curing fevers — I believed the Doctrine of concoction & Expulsion of morbid Matter was exploded as not to require a Refutation — I took notice of the Opinion substituted by those who suppose fevers owing to transmigration the Cures depending on removing this.



The Spasmodic very generally attends Fevers & often occasions the Continuance of them: yet this is not always the Cause. In all Fevers there is a Condition previous to the Spasm, which is to be considered as the Cause of the Disease & therefore the removal of this will give the Cure. — This Condition I have said consists in a certain Debility of the Sensorium or an Exaltation or Resistance to its Influence, by which the Power is not distributed equally to the various parts of the System. Thus in the sanguiferous System in greater Proportion than in the animal Organs being greater Proportion distributed to the Head & larger Arteries than to the Extremities. Nature then cures Fevers by removing this Imbalance from or resistence to the action of the Sensorium. This is favoured by the whole Phenomena of Fevers & will plainer appear hereafter in the Means employed to remove Fevers.

This is a Doctrine that will be difficultly received: for the Debility of the System seems constantly to be going on in Fevers. Nay, the Debility is often greatest, when the Disease is gone. The Debility I suppose the Foundation of Fevers, tho' in some measure universal, is yet unequal: more of it in the extremities than the origin of Nerves, more in animal than vital Organs & more in the Extremities of the Arterious System than in large Trunks, and have observed the Cure does not therefore depend alone on restoring the Vigor of the nervous Power but likewise on restoring



the equable Distribution of it most especially to the extreme Arteries. - While the Solubility or Resistance remains, the Spasm will necessarily be renewed, as it proves a Stimulus to the Sensorium & to the Heart & Arteries -

We must enquire the Means by which Nature removes this Condition.

This is partly done by a reaction of the Sensorium in an increased Action of the Heart & Arteries. The first cannot so well explain; but the 2<sup>d</sup> is one of the chief Means, it keeping up the Excitement of the Sensorium. Having considered the Termination of Fevers in Health, we must consider their Termination in Death. A difficult Problem not yet solved.

Thus here consider the General Causes of Death.

Death is the entire Absolution of the Excitement of the Nervous Power in the Sensorium. - It will be useful

for to explain the Term Excitement. I suppose it understood that the vital Principle in Animals is seated in the nervous System & more especially in the Sensorium. Every Function of the animal System depends on the Nerves. - &

The Activity of the Sensorium & of the nervous Power in general depends on a subtle elastic Fluid confined to the medullary Substance -

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This subtle Fluid is a Portion of that other w<sup>ch</sup> our Philosophers now agree exists in common to all Bodies, as connected at a State of Mixture it has no separate Motion, & only such as are attended w<sup>th</sup> change of Mixture, but in certain Circumstances it may in certain Bodies be so collected as to have Motion communicated thro' it, without Motion in the solid Parts. - We have an Instance in Magnetism & Electricity. This I call the excited State of the nervous system. - For this Excitement of the Sensorium does life consist.

Supposing such an Excitement. It is in different Degrees in different States of animal Economy. It may be from the highest maniacal State to the lowest Degree of waking Animals; below this is the State of sleeping Animals, where Excitement exists so weak that it is not sufficient for the animal Functions. - A lower Degree is that of Syncope. Here the Heart & Arteries are excited in the weakest Degree sensible, but the Sensorium is so far excited as to be capable of reacting & giving Action of Heart & Arteries. A lower Degree is *Aphasia* <sup>Heart & Lungs</sup> in w<sup>ch</sup> are stupified, but here as Life often returns so much, supposed so much excitement as to be acted on by Impulse.



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When the Excitement is below this, so as not to be capable of Excitement it is Death.

We are now to say how Death is to be brought on in general.

1<sup>st</sup> It will depend on Powers destroying nervous Power excited.

2<sup>d</sup> Powers destroying the Organs on which Excitement depends. the 3<sup>d</sup> Means of Excitement we find to be Heat, & this is as necessary for its support. - Cold then will have a Contrary Effect & Action in killing Animals will readily be allowed to be on the nervous Powers. Anything in fluids or Organs is to be considered as Consequence. If this is a doubtful Instance, it will be attended w<sup>th</sup> regard to Powers. Many operate so as to give no suspicion or Proof of Action in any Part but the nervous System.

3<sup>d</sup> The Circulation of the Blood is necessary to support this Excitement, as appears from the Effects of stopping the Impulse of the Blood to the Brain or directing it in a greater Portion. It is most necessary in warm Animals & particularly in Man - What then interrupts the Action of the Heart, puts an End to Life.

Pathologists have thought it sufficient to explain Death by showing how the Heart stops - but in the Beginning of Life it appears that the Sensorium



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is excited previous to the Heart's Action. And we further find that by withdrawing the Energy of the sensorium we stop the Heart's action.

The Pathologists have constantly marked the ceasing of the Heart's Action as the Cause of Death, yet they have not determined how this operates.

Many Functions must stop with the Heart, but this does not explain the ceasing of the vital Principle.

Thus the Amphibia whose Excitement depends less on the Impulse of the Blood, thus may be interrupted long without Death.

Physicians have explained it from supposing a secretion in the Brain requires the Presence of the Pulse of the Blood. Thus may be a secretion, tho' not for the Purposes of Sense & Motion. Whether what we have said is just, it reduces it at least to a simple system that life consists in an Excitement of the sensorium, Death in entire Abolition of this. The causes then may be direct or indirect. Direct are the causes immediately taking Excitement. Indirect those that destroy Organs necessary to the Excitement.

The Direct

- 1 Sedative Poisons
- 2 Violent Excitement
- 3 Certain Poisons

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4 Cold

5 Compression

6 Destruction of the Texture of the Sensorium ~

As to the 1<sup>st</sup> I need not say, all reflex sensations are Stimulant or sedative. That is increased or diminished excitement of the Sensorium. how they operate I cannot say, tho' <sup>they in fact</sup> ~~they~~ <sup>are</sup> certain ~

Examples of grief destroying the legs & bringing on Death ~

More evident Examples in Fear. The sudden Deaths of the Plague have been referred to Fear - This we must at least allow a very powerfull concurring Cause -

2<sup>d</sup> Violent Excitement - The only Explanation is that it seems to be the Nature of the Sensorium, all Exercise of its Excitement diminishes this - Hence we explain why Exercise attending Labour brings on Sleep. In ordinary Cases we can perceive this Exercise induce Sleep more or less irresistibly as the Exercise has more or less violent ~

All pleasant Sensations, Emotions, so are the State of Excitement that induce Debility & often Death ~

It is allowed that all these tho' immediately confined to the nervous System diminish Excitement.

See has often brought on Death - Convulsions



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are a high Degree of Excitement, & always terminate in  
Debility or Death.

This shews then that violent Excitement may be  
the Cause of Death & hence the violent Excitement

in Fevers may be a concurring Cause of Death.

Dr Pringle asserts in his Causes of Fevers that a few  
Paroxysms brought down the strongest Men so as  
not to stand. There are no very violent Sweats, it was  
the weakening Power of the Miasma remarkable in  
these Cases.

Debility then in Fevers must be referred considerably  
to the Excitement in the Paroxysms & therefore this  
in Fevers may induce Death.

Of Poisons - unnecessary to define the Term exactly, but  
to say how the several Powers operate. There are  
Powers that evidently destroy life, tho only received in  
very small Quantities. Many do this by acting  
solely on the nervous Power. We as evidently see  
too in many that They operate as sedative Powers -  
And when They are very suddenly fatal, we must  
refer it to the sedative Power in Excess.

How they operate is not explained, we must only en-  
quire if Persons concur in the Death of Fevers.

It would appear the Case. Putrefaction in a



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small Part of the System often induces Death, & the Action first appears in weakening the Power of the Sensorium. It is so quick often that we would not refer it to Fluids being unfit for Secretion, but rather to a poisonous Vapour acting on the Nerves.

With regard to Miasm & Contagion we have rendered it probable that they arise from Fermentations of the Putrefactive Fluid. And tho' not exactly putrid, yet have somewhat of the same Virulency.

We perceive in general their sedative Effects, & tho' they sometimes occasion the Reaction of the Sensorium so as to give Fever, yet often in such a Degree as to bring Death suddenly. Thus at Marseilles Death came on after the first symptoms had appeared only two Hours. A further Analogy between Miasma, Contagion & putrid Matters appears by the Matter supplying

Putrefaction in Fevers has been referred both to the Effect of Fever & to a Putrid Ferment. In the greater Number of Putrid Fevers, the Introduction of a Ferment is the most common.

I conclude then That one of the most universal Causes of Death is a peculiar Poison that destroys the Excitement of the Sensorium.

There are 4 Cases of the Operation of this Poison.

1<sup>st</sup> It may depend on the State of the Person accompanying the Miasma & Contagion.

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2<sup>d</sup> When the Poison is in the Miasmata or Contagion, tho it is not in sufficient Quantity to give Death, yet combining with a violent Excitement may kill in a few Paroxysms.

3<sup>d</sup> When in neither Cases it would kill, yet by being multiplied by Fermentation they encrease in Quantity as to give the Effects.

4<sup>th</sup> When neither of the three happens but as a Ferment produces such Deposition of the Blood, the sedative power relaxes the Vessels as to occasion them become putrid & then are a sufficient Cause.

The last is the most common & universal Cause in Fevers, examine the various Histories of the malignant & putrid Fevers & you will see very generally some Sphaelus or Mortification.

5<sup>th</sup> Operation of Cold. I spoke of it before, and is an Effect of nor is the --

6<sup>th</sup> Compression. I need not say that Compression of the Sensorium not only occasions Action but may give sudden Death. but it is seldom the Natural Effect of Fevers. The Appearance of Apoplexy & occur frequently, but we shall endeavour to shew

rather than Compression of the Sensorium.

7<sup>th</sup> Destruction of the Texture of the Sensorium. This from the increased Impetuosity in Fevers & Delicacy of the Brain has been frequently supposed. We do not however know the Operation or Signs of it. I would doubt



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of its taking place.

& I would not allow it a Common Cause.  
 Considerable topical Affections of the Brain often sub-  
 sist long at Life. - in small Lapsions that give Death.  
 it is to be attributed perhaps rather to violent Ex-  
citement & Irritation, than the Destruction of Texture.  
 Boerhaave thus explains Death in Fevers & Van  
 Swieten endeavours to support it by reasoning - but  
 they are both <sup>found</sup> ~~at~~ wrong. It is a Supposition of extreme Vessels being  
 greater in Proportion than the Trunks & is directly  
 contradicted by Dr Writtinghams Experiments.  
 Again he supposes a denser of the Solids w<sup>ch</sup> by  
 increased Impulse clogs up the Vessels, yet he in  
 other Places refers them rather to an Affection of Ser-  
pitum faciens.

If these direct Causes then, two only seem to operate  
 in Fevers viz Violent Excitement & Poisons.  
 The last may operate by being alone, or with miasma<sup>ta</sup>  
 & Contagion or by Putrefaction in consequence of topi-  
 cal Effusion.

I did not think it necessary to speak of the Mors senilis.  
 The other Causes are such as tend to an entire Abolition  
 of Excitement. They are direct or indirect.

The Direct may be referred to 6 Heads. As to the last  
 the Destruction of the Texture of the Brain, Dr Simpson  
 would not allow it as he endeavours to show that animals  
 might live without Brain; but he pushes it too far.



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The Causes taking place Fevers perhaps may be reduced to Poisons or violent Excitements.

The Indirect act on the Organs necessary for Circulation. The Causes interrupting it are more remote or direct. The more remote are stopping the Supply of Chyle hence cutting the Thoracic Duct is certainly fatal. More direct are Evacuations excessive, more immediate still are Erosions of the Heart, next obstruction to the Heart as Polypus. The Causes interrupting Passage thro the Lungs are numerous - those connected with the Fever, only are perhaps Inflammations of the Lungs by the consequent Effusion. All these act only by preventing the Impetus of the Blood & therefore take off Excitement.

In Fevers a stimulant, sedative & septic Powers occur, any one in Excess may give Death.

Stimulant Power gives greater spasm & increases the Excitement. The Stimulants besides may occasion particular Effusions & thereby in the Lungs suffocate or in other Parts give rise to a putrid Poison.

The Sedative concurring with other Causes may kill, or it may be sufficient alone or may be rendered sufficient by multiplication or by occasioning Effusion giving Rise to Putrefaction.

The septic Ferment may act as sedative & by inducing a putrid State may give a more fatal Poison.

This Connection of - - the Causes inducing Death in Fevers & the Causes originally supposed to take

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place in Fevers appears too in the Principle genera of Inflammatory nervous & putrid.

There is a Foundation for Prognosticks, let us find if the Symptoms importing Danger are reconcilable to <sup>the</sup> Doctrine of Causes. I shall enumerate the Symptoms as belonging to <sup>the</sup> Stimulant, sedative & septic Powers. We shall see how the Experience of Ages agrees w<sup>th</sup> our Causes. The Prevalence of Stimulant Power & its chief Effect the Phlogiston, Diathesis & a Consequence of this passion is expressed by the State of the Pulse & of the Heat of the Body. By the State of the Pulse as more frequent. This may be said is often from Weakness; but when with any Degree of Hardness or Fullness it is a Mark of Stimulant & Irritation.

Besides Frequency & Celerity of each Stroke may be taken in as a sign of Stimulus. In most Pulses not above 100 I can observe the Celerity of each Pulse accompanying the Frequency of their Repetition.

That cannot be perceived.

Frequent Pulse from Irritation is inferred from Hardness. This becomes ambiguous often from malice; but this will arise from the Tension & therefore ~~Exceptions~~ in very violent Contagion, a small Pulse is often a Mark of Irritation - Hence after Bleeding often makes it fuller & softer.

Heat has been reckoned a Mark of Putrefaction,



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but only as the putrid is connected w<sup>th</sup> a Stimulant -  
 Heat coincides surprisingly with the State of a sanguine-  
 ous System & therefore Heat shows y<sup>e</sup> Presence of Stimulus  
 The more subtle Distinction of a later I am  
 not certain of - The Heat is expressed, first on the State  
 of the Tongue as more or less covered with Fibr. To pre-  
 serve the Tongue fit for Taste, there is a more exhalation  
 of a Fluid & leaves on Evaporation a thicker Part. In  
 Electrics & Children the Fluids are so thin as not to give  
 a Sediment but this always happens more or less in Adults  
 and when the Heat of Fevers exhales more than is more  
 mucous Sediment. It goes so far as to give a dry Crust.  
 Why it changes Colour we cannot explain.  
 & Heat is expressed by thirst from the Mouth & Fauces  
 becoming very dry - But Heat is not the only Cause of thirst  
 Thus Spasm in a Cold St. Putrid Matter in the Stomach.  
 Suppression of Heat too are connected on the Surface of the  
 Body  
 & Scanty high coloured urine. This is a sign of Heat  
 & of the Determination at least of Respiration to y<sup>e</sup>  
 Skin. Perhaps the Heat occasions the Blood to part  
 with more of the colouring Parts of Bile.  
 The Absence of Remission - I have endeavoured to show  
 that the Protraction of Paroxysms depend on Stimulant  
 Powers. But this Stimulus may be continued with  
 Delicacy or Septicity & when these act we shall find the



*[Faint, mostly illegible handwritten text in a cursive script, likely from the 17th or 18th century. The text is written in dark ink on aged, yellowed paper. Some words are more legible than others, but the overall content is obscured by fading and the style of the handwriting.]*

*[Marginalia on the right side of the page, continuing the handwritten text. The words are partially cut off by the edge of the page.]*  
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Symptoms of the Stimulus proportionally depend.

The Inflammatory Fever from violent Excitement may be dangerous, yet it is the safest Fever when not attended w<sup>th</sup> topical Affection. The Inflammatory State only becomes dangerous perhaps when there is Determination to the internal Parts. I cannot help illustrating this by the safety of the Rheumatism, when the Determination is to the external Parts. A Practitioner of 40 Years said he never saw Death from the Rheumatic Fever. In 30 Years I never saw it, except when ending in a topical Determination. These Determinations I refer to 3 Heads.

- 1 Determination of <sup>e</sup> Brain  
2 ———— to the Lungs  
3 ———— to the Abdominal Viscera.

As to the 1<sup>st</sup> it arises from Thidaws of Circulation.  
- in the increased Action of the Heart & Arteries -  
must without typical Causes necessarily take  
place to the Head; & is found in the

Sweating in Consequence of this Detri-  
mination appears first on the Face & perhaps Ears.  
Atherma.

The Determination is discovered by an unusual Pulsation of the Temporal Artery, a Swelling of the Face, protruberant & inflamed Eyes - increased Sensibility of Light & ——— Violence of Head ache - Constant Watching, Violence of Delirium ———

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These are not ambiguous w<sup>th</sup> regard to Cause, except Delirium - This is to be distinguished by the Mode of Delirium, being etc being attended with greater Rapidity of Thought, by Impetuosity of Emotion & Passion. Where these concur with other symptoms, I take it as a Mark of increased Impetus of the Blood to the Head.

The Congestion is generally the Cause of Inflammatory Spasm, yet the Impetus increased may give the Congestion - hence Phrenitis may arise - & therefore an Irritation fixed to the most tender Part.

D. Determination to the Lungs - From their Nature & Function every increased Velocity of the Blood must especially be felt there as as much onest pass thro them as thro the whole System.

But then they are exposed to the Air; from both which Peripneumony is the onest common Inflammation

The increased Velocity in the lungs gives difficult Respiration. The intercostal Muscles are taken in often & shew it more laborious. But often too all the Muscles are employed that can move the Ribs. A difficult Respiration then will express a particular Determination to the lungs. - The same is expressed by the Decubitus difficilis. Tho this may arise from Affections of the other Viscera yet in general it happens from the Lungs.

It will be more fully expressed by Pain of the Thorax, Cough & more Certainly if Cough is attended w<sup>th</sup> catarrhal symptoms. The strongest Degree of Respiration is expressed by a Turgescence of Countenance, of a more bloated look



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Appearance than in Determinations to the Brain -  
 3. The Determination to other internal Parts, tho' not vital, yet as giving Irritation from Congestion, & especially as these Viscera are liable to Effusions, & from Suppuration or Putrefaction may bring on Death, hence topical Affections of the abdomen are Dangerous.

When Detected only by Depressions but in general are to be inferred 1<sup>st</sup> from Vomiting. This may arise from a certain State of the Sensorium or Surface, but when not to be suppressed by saline Diaphoretics or Spasms, it is a Symptom of inflamed Viscera - more certainly of a Principal Tension of the Abdomen, as happens in Intermitteints or continueds from this. As such Fevers were chiefly Objects of the Anticrisis Practice, so They speak most of Inflammations of the Liver, Spleen &c. Tension then in general & Inflammation may be marked of topical Determination to the Abdominal Viscera more certainly if there is Topical Pain -

The Effects of Stimulus becomes more dangerous as combined w<sup>th</sup> Sedatives or Septic Powers, as it not only exerts its own Effects, but as it aggravates the Effect of Cause by increasing the Tenuity of Miasm & giving the Effusion that may be Dangerous -

The Prevalence of Sedative Power may depend on various Causes.

1<sup>st</sup> To the Person is weak from Evacuation, Disease, grief watching &c.

2<sup>nd</sup> On the Power of the Miasm. & Contagion







3<sup>d</sup> As with (2) the Concurrence of Fear & Despair. The Presence of these are often the Marks of the Strength of the Cause, but without this Timidity may conclude.

4<sup>th</sup> Repetition of Paroxysms.

5<sup>th</sup> Excessive Evacuation.

6<sup>th</sup> In Consequence of the Cause being increased by Multiplication.

7<sup>th</sup> A Particular Generation of Putrid Matter.

I shall mention the Signs of Debility in the 3 Sets of Functions. - vital, natural & animal.

the Symptoms as arising in the several Functions.

In animal as they affect voluntary Motion. Debility appears from a considerable *depression* & Sense of Debility preceding the more formal Attack of the Disorder.

In the attacks it appears more by the loss of muscular strength.

At first the Debility of muscular strength amounts to the Difficulty of keeping on *if* legs. he at first can support himself in a sitting Posture. further on he cannot bear this - he lies along, when few Muscles are employed in lying abed we see the Progress of the muscular Debility, in the Faculty *at* *at* he turns.

At last he cannot turn except by the Assistance of a Bed Pander. Even here we may observe him to contribute more or less - lies at last on one side & further can only lie on his Back. further if the Bed declines he cannot support himself from sliding down. goes forth when he exerts himself by erecting his knees to prevent

[illegible]



sliding down.

The weakness is further expressed by this, that every Effort of muscular Action is attended at Times, with the certain sign of considerable Atonia - not so mortal when affecting whole Limbs: but if confined to small Parts as the Tongue over which we have more Command, it is worse. Still more when the Motion of the Eye is attended with Spasm - when they are convulsant in squinting appears when the Ball turns up, & the Eye lid does not, even from the long Habit, follow it. - Convulsions express great Debility, & are as much the Effect of this as Irritation. - Accordingly all mortal Persons have convulsions at the last. In Hemorrhages & fatal the last Effects are expressed by Convulsions. These Symptoms exasperated are expressive of the weakening Cause of Fevers. Heat in Sense & Thought. The particular Symptom here is the Tone of Mind. Dejection & Despair either in Sentiments or Countenance. A certain Tone of Mind attends a certain State of Body. one is attended with Chearfulness & Hope, Courage & Activity; another with Apathy, Lethargy & Despair. From a Number of Instances in which they occur, we can say they are nearly as the forerunners of the Lethargy. - It applies too pretty generally to the Rigor of the system in general. Dejection then & Despair arising from the Disease in Persons of Hope & Courage give great Marks of Debility. -





If expressed in the Countenance the act in Sentiment.  
we may suppose the same State of the Sensorium.

In a Person of Health the Eye is open, is directed to a particular Object steadily & is directed to a Diversity with a Rapidity as quick as thought. There is a certain Agility in the Muscles of the Face too. Debility then occurs when the Eye scarcely opens when it wanders languidly when loose in its Attention - When the Muscles are lax & expressive of Despair. - I find that has chief Regard to the Expression of the Countenance. The rest of the Symptoms of Sense & Thought express rather the resistance to the Action of the Sensorium. Thus it appears in a Confusion of the Head, when Recollection is not easy, & the Mind does not pass from one Idea to its usual Associate, proceeding at last to almost a Loss of Memory. This we must suppose to depend on an Interruption of the Motions and these all probably depend.

The Resistance appears when the Ideas are incoherent. This is the State of Delirium. It might be proved that all Incoherence of Thought depended on an unequal Excitement of the Sensorium. - We may suppose it to arise from Absence of Excitement in one Part, or the unequal Excitement in one. Excitement appears to depend on the Action of the Heart & Arteries most; but this increased does not give Delirium except Resistance in one Part.



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On this supposition it may be of 2 sorts -

Resistance may not be very great, & yet great Impetus excite Delirium. If Impetus not very great & yet Resistance very great Part, Incoherence may arise. When Delirium appears without great Impetus; then with the symptoms of Debility. When the Incoherence of thought is not rapid & attended w/ violent Emotions. All these symptoms I take as Marks of Debility or Resistance in some Part of the Sensorium. It will appear more when it is connected with a State of Sleep. The ordinary Impetus in unequal Excitement is sufficient to give Delirium. Thus every Man more or less determines on going to or coming from Sleep. - Certain Associations are so connected along established as to remain w/ some Delirium. If these then are interrupted, greater signs of Resistance. Thus the forgetting Drink when called for, or even: making Excretions without calling for the Instrument: usually requires. All unconsc:ous Excretions then are a very bad sign. That is when evacuated in the usual Way, & upon paralysis of Sphincters. - Insensibility to Thirst, when Heat & other Causes subsist is a great Mark of Interruption to the Functions of the Sensorium. It goes further when the Insensibility of the other Senses takes Place, as False Vision or Loss of Sight.

*[Faint, mostly illegible handwritten text in cursive script, covering the majority of the page. The ink is light and the handwriting is dense.]*

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The most ordinary Instance of this false Vision is when he endeavours to remove false Objects on the Bed Cloaths from him. - Still further when a State of Sleep comes on. - Sleep in Fevers is not reckoned a bad Symptom of the Sleep is natural. But we distinguish between Sleep & Coma. Coma is Sleep in a higher Degree than Natural. -

Sleep in healthy Persons may be from Compression or a collapse of sinking of Excitement.

That the Coma of Fevers depends on the latter is evident from its appearing in the natural Way & only arising to a greater Degree of Sleep. Thus these Degrees I reckon it only an Excess of the same Nature from the Sickness of Recovery as often happens. Compressions from Effusions &c. are seldom so soon removed as not to leave some Effect.

In the Vital Functions of Circulation, we first mention as a Mark of the weak Action of  $\gamma$  Heart. When it cannot bear the Action of Gravity in the Blood & therefore not propel the Blood in an erect Posture so as to keep up its Action & excite the Brain. This might be reckoned an Effect of the animal Functions, but when Liddiness is preceded by Tremulus aurium. I consider it as a Symptom of weakness of Heart. - A deep Ambiguity in the Pulse - Great frequency is a mark of that Instability of  $\gamma$  Heart, when



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It does not evacuate itself & therefore is soon filled and irritated to Contraction.

We said Frequency was also a mark of Irritation; but we may especially reckon it from Debility, where it is weak, more if irregular, & further if concurring with the Symptoms of Debility.

We have an Instance of Debility too in Slowness of Pulse sometimes.

This is difficult to explain - we can say that When the Pulse is slow in proportion to the Affection of the Sensorium. - We may reckon it a Mark of Weakness. It is a Sign that the Energy of the Sensorium is not excited towards the Heart. This will explain the Slowness of the Pulse in nervous Fevers when the Sensorium seems evidently affected -

Heat when lower in Proportion than would be expected from a feverish State, it is a certain Sign of weak Action of the Heart in Consequence of weak Energy of the Sensorium.

We may explain animal Heat variously, but it is somehow connected w<sup>th</sup> a certain Action of the Heart & Arteries. Debility appears on the Lungs when respiration is small - i.e., when the Contraction of the Diaphragm is not excited w<sup>th</sup> sufficient Tone & Extent. When neither this or Intercostal are able to dilate the Thorax sufficiently.

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becomes extremely frequent; thus if a Person on speaking a little, taking a Drink or moving himself, is affected with very frequent Respiration, it is a Mark of Debility.

Labourious Respiration is in very different Degrees & a mark of Debility. We labour some when we take in the outer: costals. Still further Debility when we require the Muscles between the Scapula & Ribs. And a fixed Bond must be given that they may act. When their Head is stretched or Scapula raised, it is a mark of great Debility. Still more when we take in the feeble Assistance of the Pinnæ Narium to impel as it were the Air into the Lungs.

On this Subject we must add the Change in the Tone of the Viscera. Voice

The Tone of the ~~Viscera~~ depends on the Organ of Respiration being so far under Command as to push the Air as the Expression of Sounds requires. When the Muscles of the Glottis, when Health we govern w: great accuracy. When Debility it is a remarkable Sign & still more when it arises to a perfect Aphonia.

Besides these Symptoms when the Heart does not propel the Blood to the Extremities so as to be cold, it is a great Mark of Debility. When Colour fails in the Face it is a great Mark of weak Circulation. Still more if besides Change of Colour, there is a Thinning of the Face, the Hollow Eyes, Cheeks & other Signs of the face.

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## Hypoerætica.

For the natural Functions of Appetite & Secretion we must consider the Symptoms without examining the Connection of the Stomach & Sensorium. It is a fact of something is a Mark of Debility and since so frequently attends Delirium. Animi. If the State of the Sensorium depends on the Impulse of the Blood on the calereæ Inferioræ we may readily explain the Want of Appetite. We might explain this Want of Appetite otherwise, but in general it is a mark of Debility as it often proceeds in proportion to the Symptoms of Debility.

## In the Excretions

The outlets of Economy for certain purposes are provided with certain Sphincters that do not open except on necessary Evacuations when this Constitution is also locked it is a great Mark of Debility. The Difficulty of Deglutition is a considerable Mark. You may enumerate many other Symptoms of Debility. I have mentioned enough for you to judge of the Strength of the sedative Cause & of the Danger. I must add that all these Marks are more dangerous when connected with a sterculant Power. When this happens appears from considerable Sensibility at the Beginning of a Disease, while Marks of Irritation in the Progress are not so prevalent. Interrupted Sleep, languor & Drowsiness show Marks of Debility, but when they are interrupted it is a Sign of Irritation. Still more



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When there happens watching for Nights & Days - The  
Irritation is expressed when without violent Emotions,  
there is constant Restlessness & Desire to get out of Bed -  
When Vision is quite destroyed, there is often a Constric-  
tion Manuum joined to the Impatience of getting out of  
Bed, which is a mark of some Irritation. - A great Frequency  
of a weak contracted Pulse will be a mark of Debility, but  
is especially a Mark of Irritation subsisting & great De-  
bility. - When Spasms subsist & great Debility, a Mark  
of Irritation - hence termed Tremor in Fevers is ge-  
nerally a Mark of Irritation - Convulsive Motions  
often occur in Irritation & Debility as  
*Subultus Tendinum.*

When we consider how often Miasmata & Contagion  
are connected at Putrefaction & how often they have  
more or less of Septic Ferment.

We shall think that the Poison of Fevers is centered  
almost entirely on that of the Putrid Kind, as would  
not entirely refer to this, tho' no more greater Danger  
than in those Cases where Tendency to Putrefaction appears.  
The Tendency to Putrefaction is expressed first by Nausea  
& Thirst. The Presence of putrid Matter in the Stomach  
is attended w<sup>th</sup> Nausea. When no Putrid Matter is known  
in, or any Reason to expect that the Matters have become  
so, yet if very considerable Nausea we may suspect a  
Tendency to Putrefaction. Even vegetable Matters may



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become putrid, & therefore is such Nausea excited for  
taking of all Appetite for Food, & great Thirst  
that much may be taken in to dilute the Putrid  
Matter & promote its Expulsion by <sup>the</sup> Emmenotories.  
Hence great Thirst a Sign of Putrefaction. These are  
ambiguous, — more certain and offensive Tastes on  
the Mouth, & Taste of Breath may be a very strong  
Mark.

First we may distinguish it in the Color of Urine —  
High coloured Urine we said attended Stimulus, but a  
Difference between this & that peculiar to Putrefaction.  
The latter is not the high coloured brown but has more  
red & generally turbid.

Frequency of loose Stools if these are very fastid. vari-  
ous Causes of Diarrhoea in Fevers but especially  
from acid Bile in the Intestines. It appears that  
Bile is thrown in great Quantity on the Intestines  
especially in putrid Fevers.

It is most disposed perhaps to the Putrefaction of our  
Fluids. However it be certain it is, that it accompanies  
the Marks of Putrefaction & is favoured by Stagnation  
in the Intestines.

More certain Marks are the Deposition of the Blood —  
When by cooling it becomes a gelatinous Mass, with-  
out the usual Separation of Crassamentum & Serum.  
This is hardly to be influenced by the manner of Drawing.



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therefore when appearing much, it is a Mark of the  
lymph having lost some Power of coagulating & this the  
consequence of Putrefaction.

When the Coagulum is formed the Matter may be  
suspended, but the Colour of the Serum has influenced  
the Globules are so dissolved in Serum as to give  
the Appearance of the *Lotura Carnium*. It is a mark  
even without this, a yellow Colour is a sign of Putrefaction.  
The Yellow arises from this, or from a reabsorption of  
bile. When one Cause it would give Rise to this Reab-  
sorption, it must be I think referred to the other Cause  
where the Matter is more ambiguous and those  
I have an Inflammatory Buff. This has been ge-  
nerally referred to an Inflammatory State tho the  
theory is false, for in the Scurvy & other Diseases of  
great Disposition this has appeared. It is not then a  
negative to Putrefaction & besides it does not appear much  
Concretion as that in the pure Inflammatory.  
I have seen the lymph separate but it was  
between it & the Globules was a gelatinous Mass.  
It is too in less Quantity than in the pure Inflamm.  
matory. We may still more certainly determine  
Putrefaction if the subsequent Globules are more readily  
dissolvable.



*[Faint, mostly illegible handwritten text in a cursive script, likely from the 17th or 18th century. The text is written in dark ink on aged, slightly discolored paper.]*

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In consequence of this Disposition Hemorrhages are re-  
 garded a Mark of Putrefaction. Partly is this owing to a cer-  
 tain Ataxia taking place in the Vessels at the same time.  
 The Effusions appear in different Places. In Women by  
 the Catamenia appearing before the usual Period. When  
 it occurs it is of a very dark red & often a subsiding to the  
 Bottom. The Nose is Subject to Hemorrhage. This is a mark  
 of Putrefaction when without Crisis or Inflammation  
 Congestion evident. Loosness of the Eyes & even Flow of the  
 Tears have issued out of Blood. - Blood from various Coar-  
 dices poured into the Alimentary Canal - more or less  
 Hard is it rendered by Vomit or Stool.  
 It is a mark too when the Blood is effused into the Cellular  
 Membrane & the re-mucosum. In a moderate  
 Degree it produces the Petechia so much spoken of lately.  
 Death with regard to their Appearance. In the latter  
 End of a Disorder they may not only depend on Disposi-  
 tion, but also on relaxation of Vessels. Hence may  
 perhaps prove critical. They may be more innocent  
 at least when appearing late & without much Marks  
 of Putrefaction in the first Cause. It occurring at first  
 they give Sign of the Ataxia brought on by the Strength  
 of Putrefaction. More dangerous as declining from the  
 florid Colour - & still worse when so considerable as  
 to form Macule & Lividities -



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the Disposition appears when the Vessels are relaxed so as not to pour out red globules but the Serum, it gives the yellow or yellow Tumor. It is not bile from the Arguments given just now, & especially from the unequal Marks of Putrefaction on this Fever. - yellow Effusions are likewise in the Pelious Fever of the West-Indies, but the malarious Fevers of more northern Climates. These are of the same kind only, but the last comes on later & therefore as being more from Relaxation than Disposition may prove critical.

The Tator of Effusions gives a Mark. Thus the Tator from Discharges of this kind, fatal sweats. I cannot well distinguish the various Degrees of but offensive & occurs in sweat & Perspiration are often forerunners of short. Another distinguish under the title of Cadaverous odor. It occurs often some Days before Death & is a very certain Sign of its approach. This putrid State may be continued at an inflammatory or stimulant & especially at the last, with a State of Debility or sedative.

We have now gone over the symptoms of Fevers arranged as they express Irritation, Debility or Putrefaction. I conclude this Subject of Prognosis & finally observing that there is generally a Concurrence of these Powers, & their Degree must determine our Judgments.

This leads us next to the Method of Cure we cannot





give a Method as applicable to particular Species, as we have not ascertained them. We shall only give a generic Cure as applicable to Genera. In all Nature where there is Uniformity in Principles, yet thro' each particular they are such subtle Differences as often escape us. - Our Conduct must be regulated by generalizing our Views. - Our Method perhaps will apply however to Differences of Species & Varieties of Varieties - for if we had entered on it, we should chiefly insist upon the Difficulty of establishing & the Limits to be observed. - What we have said of the Causes & Prognostics lays a Foundation for the Method of Cure. - Our Causes agreed & the generally established Genera of Fevers, of Inflammation, nervous & putrid.

My Plan of Cure is to be reduced to the 3 general Indications corresponding to the Causes of their Genera as follows: Stimulant, Sedative & soporiferous Power prevailing.

- 1<sup>st</sup> To take off Excess of Spasm.
- 2<sup>d</sup> To restore Vigor of the Sensorium, especially the equal Distribution of the nervous Power.
- 3<sup>d</sup> To obviate Putrefaction.

The Part of our System will be confirmed from our finding the most confirmed Remedies arrange themselves under these Heads.

- 1<sup>st</sup> To obviate the Excess of Spasm we employ
- 1<sup>st</sup> The antispasmodic Regimen consisting in the



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moderating their Irritations that are constantly & unavoidably applied to the system, & at the same Time amending every other Irritation within or without.

2. Remedies suited to take off Phlogistic Tension - viz Bleed<sup>g</sup> Purg<sup>g</sup> (considered as an Evacuation) & the Medicines called Spigerants.

To restore Vigor of Sensorium. &c.

For this Purpose we employ Delicents, Nutrients, Sudorifics,metics, Blisters, warm Bathing, cold Drinks & cold Bathing, Cordials, Antispasmodics & Tonics. I have chosen single Terms. That has been meant under each will appear hereafter.

III To obviate Putrefaction we employ certain Means of withdrawing the Forces, antiseptics, & Tonics. Let us consider them particularly & 1<sup>st</sup> Antiphlogistic Regimen so called because most fitted to the Cases where Phlogistic Diathesis takes Place.

It consists in avoiding all Irritation - This Attention is indicated in all Fevers. Certainly in all States of a Fever where any hot fit yet subsists - yet making this universal is wrong - For as Fevers arise arise of promiscuity, it will appear that seeming Irritations are proper. There is an Ambiguity, & indeed will seldom occur at first. However in the latter Stages too we shall find that the Presence of an Inflammatory State on any slender the avoiding this necessary.

In Cases of sedative & Septic Powers, this is absolutely





especially with Stimulants applied to the Sensorium only appear allowable. But wherein Spasms about perhaps Stimulants are hurtful. All the Cases I can find where Stimulants are proper are attended w<sup>th</sup> little or no Spasm. — In Cold Fits of Fever they may be admissible if we can perceive the approach before the Spasm is formed; but here no Spasm is present. In Intermitments after Paroxysm is come on, every Stimulus tends to lengthen the Fit. & are serviceable only in Intermissions. Another can or may be in Continued Fevers — In the latter Case Admixture for the Inflammatory Congestion may be when we do not readily perceive it. We conclude therefore that Stimulants are not admissible as long as the Hot Fit remains.

The Particulars of Antiphlogistic Regimen are

1<sup>o</sup> To avoid Sensations & hence avoid Light & Noise, but more especially so we avoid Impressions & Sensations that occasion Excitation of Thought. But Thinking is difficultly avoided & rather only difficult especially in the Beginning of Delirium. This consideration gives me a Doubt w<sup>th</sup> regard to the general Rule of avoiding Impressions. For in the rambling Thoughts of Delirious Persons I think I have found Light & Noise necessary to bring back our ordinary Train. This is more necessary when y<sup>e</sup> Delirium is accompanied w<sup>th</sup> violent Excitement. I have frequently put off a Tendency to Delirium by having light or a Companion put off the Sensorium from internal Impressions.

2<sup>o</sup> The avoiding Bodily Motion — All kinds of all kinds



*[Faint, illegible handwritten text in a cursive script, likely from the 17th or 18th century. The text is spread across approximately 15 lines.]*



*[Faint, illegible handwritten text visible on the right edge of the page, continuing from the previous page.]*

can Irritation to the Sensorium; but if we consider  
how much the Tension of Muscles is connected, the Excitation  
of Muscles influence the Tension of the whole System.  
This is not attended to. I think that our Views on (Blood)  
are often frustrated by keeping the Body in a Posture  
when many Muscles are in Action. Hence the Advan-  
tages of Bleeding in a declining Posture, not enough  
considered. The least muscular Action is excited when we  
lie on the Back - but this is not eligible, as it retards  
the Return of the Blood to the Head. - The Head then should  
be raised & the Tendency to slide down may be obviated  
by raising the Feet, provided this can be done without  
disturbing the Head, especially in Motion to be avoided  
and accompanied with Tremor or Delirium.  
The avoiding Head & Cold - You are doubtless well  
acquainted of the great Powers of Heat & Cold on animal  
Economy - that they may be Potentia nocentes in use.  
Remedies, but have that the Transition from one to  
the other takes Place by very slender Changes in Degree or  
Circumstances. The Attention to these difficult as they  
are does not depend so much on their Intensity &  
as on the relative State of the Body. - I have en-  
deavored to bring out the Principles on this Subject.  
We said that supposing human in the most perfect  
State, it is, allowing for Climate nearly at 98°  
the Temperature of Body would not subsist without the



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Medium surrounding it is cooler. Whatever Exceptions the Fact is very general. The supposing the Heat of the Body must depend on the Heat of the External Air & the Temperature of the Air it is best adapted to preserve the Heat of the Body in our Climate is  $62^{\circ}$ . When above  $62^{\circ}$  the Body feels hot, when under it cold. To determine their Effects in Fevers, Physicians have observed that a certain Heat was hurtful, but this not sufficiently ascertained. Dr Sydenham perhaps first observed that Rheumatism & other Inflammations were aggravated by a certain Heat. And his Observations show that such Heat proves a Considerable Irritation & therefore hurtful in Disorders of the Inflammatory Kind. It appears that in such Cases a Degree of Cold less than  $62^{\circ}$  is useful. The Question is to determine the limits of this.

When Diathesis Phlogistica are evident, there is no Danger of applying Cold considerably below  $62^{\circ}$ . This is a Case in which the Effect is as much determined by the Condition of the Subject as by the Intensity. Here appears that Vigor renders People less affected by Cold & by its generating greater Heat makes a Temperature lower than the Standard necessary.

In the small Pox it now appears that a Considerable Cold is allowable. I explain it from the Copiousness of the small Pox having great Humors, & accordingly after the Eruption the Fever brought in in Consequence



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of that Irritation inducing - Diathesis Phlogistica.  
Whenever perhaps there is a hot Fit fully formed, the  
Body as increased in Heat perhaps requires more Cold  
than Cold - Cold then is useful in some Cases, & at least  
in all Fevers every Degree of Heat above  $62^{\circ}$  is hurtful.  
The Cases in w<sup>h</sup> Cold may be hurtful, are when Spasm is  
not yet formed a Hot Fit come on - The Body then is  
in that State of Debility that particularly favours the  
Action of Cold. When therefore Fevers approach very gra-  
dually & with great Debility, the Exposure to Cold gives  
greater Debility & more dangerous Spasm.

At this Time Heat by preventing the Constriction of the  
Sensorium & obviating the Constriction of the extreme  
Vessels may be useful.

When in formed Fevers the Sedative prevails & there is  
Danger of the Sensorium sinking in extreme Degree.  
When in Fever it is necessary at the first attack to  
force Sweats Cold is dangerous & Heat is useful.

This usefulness of Heat will appear to you contradic-  
tory to the universality of an Antiphlogistic Regimen.  
I shall assert that all general Stimuli are hurtful, but  
I shall make Exceptions in favour of Stimuli that act  
partially. Thus Heat acts principally on the extreme  
Vessels - relaxes them & gives Rise to an increased Exer-  
cise of nervous Power.

In critical Sweats that is admissable, this is confirmed



*[Faint, mostly illegible handwritten text in a cursive script, likely from the 17th or 18th century. The text is written in dark ink on aged, slightly discolored paper.]*

*[A small, dark, handwritten mark or signature, possibly a stylized letter or a flourish.]*

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by universal Experience, but not easy for Practitioners to apply the Rule. Difficult to determine when Sweats are critical - When Sweats are attended with more softness & fullness of Pulse with less frequency - When the flowing of sweat is attended a Relief of Heat, Thirst, Headach, Delirium, Restlessness & difficult Respiration & with Sleep. there is no Doubt but such Sweats are critical, but that Cold would be hurtful by suppressing it & that a greater Heat of Body may be admissable. but there are Colliquative Sweats in a<sup>th</sup> Stage. plentiful. certain Sweats are salutary if not urged by external Heat, & so often prove pernicious.

Heat by being pushed too far may encrease the Hot Fit, hence occasions topical Determination & therefore the Management of Heat extremely difficult. Critical Sweats then, & certain contagious Disorders which we shall mention, are the only Cases of continued Fever that admit Heat.

In Intermittents there is both Hot Fit & exception. In the latter Heat admissable, in the former it is so soon to terminate in sweat that we would not apply Cold.

#### 6th Stimulant Aliment.

Heat - The Action of the Stomach proves stimulant & system - and hence a frequency of Pulse attends the first Operation of Digestion. Food then is always stimulant. Abstinence then in Fever is extremely necessary - but as we cannot refrain from some Food, we



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must at least <sup>to chuse</sup> ~~and~~ that of greatest solubility & <sup>least</sup> Alka-  
lescence. Hence liquid Foods are & Alka-  
lescent avoided as giving Stimulus & increasing putre-  
factive Tendency in Fluids. The Rule of this Country  
is to abstain entirely from animal Food is proper —  
The Antients had a Nicety in giving Diet of <sup>such</sup> we know  
Nothing. The Inhabitants of warm Climates indeed may  
require more regular Food as more sensible to Changes. But  
their Doctrine was found as much on Theory as Experience.  
What is sold in these Observations amounts to this —  
If Appetite for Aliment. This discovers the Remedy  
of the Disorder & therefore Stimulus of Aliment less  
Dangerous. But the the Appetite may guide us yet  
we may very readily go to excess. And therefore this  
Rule not so general as that of avoiding Aliment when  
no Appetite.

? Abstinence is most useful at first — at the latter  
end of the Disorder, Aliment may be useful to support  
Strength. In Intermitents we are to take that Time  
for Aliment most distant from Accession & in conti-  
nued we are to give Aliment in the most perfect Re-  
mission. This Attention to Time becomes less neces-  
sary, as we are cautious in giving mild antiseptic Food.  
The Antients rejected properly all stimulant Liquors,  
that is all Liquors impregnated with aromatics & from  
all fermented Liquors. Hence Wine. Disputes with  
regard to this, we shall consider hereafter as of



*[Faint, mostly illegible handwritten text in a cursive script, likely from the 18th or 19th century. The text is written in dark ink on aged, slightly discolored paper.]*

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admirable it must be as a Medicine. I do not how-  
ever agree w<sup>th</sup> Celsus in supposing that Abstinence  
from usual Wine is of more Consequence than subtract-  
ing usual Food; but Food not only stimulates the Stomach  
but remains longer & fills the Vessels. - This indeed will  
be relative to Habits. If a Person uses vegetable Diet  
much Wine Celsus' Rule may take Place; but Wine  
is attended w<sup>th</sup> considerable Dilution & an agreeable anti-  
septic Food.

As to stimulus arising from the Body we must avoid  
Thirst. This is generally in Proportion to the Demand  
of Drink, & when we consider how useful Diluent Drinks  
are on several Accts. I see no Foundation for some of the  
Authors recommending Abstinence from Drink for  
3 Days. Thirst as a Stimulant ought on the anti-  
phlogistic Plan to be removed. - As to the antient  
Rule a Case is explained by Dr Clegg.

He says in the greatest Urgency of the Thirst in Prox-  
ymis of Intermitents the Spanish Physicians do  
not give Drink till Sweat is ready to break out.

He finds a Reason just in the great Collection of  
Blood in lungs &c. - It would be aggravated by filling  
the Stomach. - Besides this, these Physicians say  
that Drink tends to prolong the Febrile & the whole con-  
tem Practice has this Tendency. We shall hereafter  
explain this perhaps. We may observe that Drink is not



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to be regulated by the Thrust of The Patient.

2<sup>d</sup> Condition of Pains vis to be removed, whether from  
Ingestion Fluids of Pains vis thrown out in too great  
Quantity or vitiated Quality.

3<sup>d</sup> Stimulus from Costiveness. - In all fevers not remi-  
tantly bilious & putrid, Costiveness commonly occurs -  
It arises from the general Constriction of Extreme  
Vessels. The Tension of the alimentary Canal has  
great Effect on that of the System - Hardened Faeces col-  
lected then will prove stimulant - But further in  
Fever Fluids are accumulated in of abdominal Viscera  
This must be increased by the Constriction of Vessels  
of the Intestines & therefore the relaxing them draw-  
ing the Faeces will relieve this Glysters are proper  
for this, tho not more Stimulant than good to answer  
the Purpose, otherwise Purgatives.

4<sup>th</sup> To obviate the Acrimony of the Fluids in general  
Every Person will admit that in all Fevers there is  
a Tendency to Putrefaction & alkalescence. Hence  
that this must be moderated by antiseptic & Aliments  
& considerable Dilution. Physicians have often  
much of the Dissipation of the Fluid Part of the  
Blood, hence an Insufficiency of the remainder &  
therefore a Lenta supposed. This allowed, & we  
shall not now examine, Dilution appears equally





necessary. Therefore Dilution <sup>is</sup> a considerable Part  
of antiphlogistic Regimen.

We proceed now to the taking off Excess of Spasm  
When it occurs. Many of the Particulars of antiphlo-  
gistic Regimen are applicable here. You will easily  
discover how many of these Particulars as operating  
usual Evacuations are withdrawers from Supplies  
of Spasmodic.

We especially however abate Spasm by taking off  
arterial Tension particularly that in a Diathesis  
Phlogistica consists.

What ~~is~~ Difficulty there may be in explaining  
how the increased Tension of the Arterious system in-  
creases Spasm, the fact is certain - for we find  
the increased Action of the Arteries greatest in the Phlegmasia  
when a Phlogistic Diathesis is certainly present.

Because this Diathesis gives longer Fevers when it occurs.

Because whatever Stimulant has the Effect of exciting  
Arteries gives great Spasm, longer Paroxysms, & there-  
fore often changes Intermittents to continued Fevers.

The Remedy of the Phlogistic Diathesis is Blood-letting.  
The Tension of Arteries depends partly on Increase of the  
Action of the Sensorium partly on <sup>the</sup> distending Fluid. Hence  
if we consider how Evacuating takes off the Tension & how  
the Tension of one Part is connected with that of another  
we shall see its Effects.

And then V.P. should have the phlogistic Diathesis.



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But the V.S. is indicated in so many Fevers, yet we must consider that the excitement, the vigor of the Sensorium depends on a certain Tension given by the Heart & Arteries to the Vessels of the Sensorium. When Debility prevails in Fevers & they are fatal, it may be not only from Poisons attacking the Sensorium, but may take off the Tone of the Arterial System. Poisons indeed may do this - It appears from the Dissections of the Persons who died of the Plague at Marseilles & others, the Heart was found distended commonly to double its natural Size, Arteries full & very turgid w<sup>th</sup> Blood. Liver commonly of double natural Size, all these are to me proofs that the Tone of arterial System was so weak that the natural Contractibility could not unload them as usual - hence to be considered as a principal Cause of the Death.

When Death arises from Causes of Debility it appears in the Weakness of the Pulse. When these Causes of Debility occur, when the Debility is approaching or when Reason to suspect to Debility is soon to prevail 'tis dangerous to employ means for taking off Tension of the Arterial System - There are therefore Limits to V.S. even in Fevers very inflammatory. There is not a more difficult Question than when V.S. is to be employed in Fevers? There are here 2 general Rules, indicating or contraindicating it.

1<sup>st</sup> Indicated when Stimulus is more in Proportion than Relative or Septic. Many circumstances determining this. We know Stimulant Power to prevail when at first the Pulse is very frequent, accompanied with Strength & Fullness





and especially if joined to a sensible Hardness  
Then considerable Heat too is present & also when the Velocity  
of the Stroke is perceptible. This will be more indicated when  
appearance of topical Determination, as Head-ach, furious  
Delirium, Difficulty of Breathing.

When these Marks are not sufficient by decision, we take  
in other Considerations. Thus when we know that Causes  
more evidently Stimulant have preceded: as when the  
Patient has been exposed to great Heat, Labour or Cold.  
I would not be positive but Cold may excite Fever alone  
it at least determines particularly to Phlogistic Diathesis.  
Another Consideration is the previous known Vigour of  
the System known to be disposed to Phlogistic Diathesis.  
Hence in the robust & youthful. The ancients from their  
Climates perhaps avoided Bleeding in very young &  
very old Persons. The Generality of this Rule was doubted  
and Celsius Teme. yet certainly old Persons are less  
disposed to Phlogistic Diathesis. In very young Persons  
the Activity is greater & Tension less. So that V. S. less neces-  
sary - In the Advance of Life Caution necessary.  
Other Circumstances determine to Phlogistic Diathesis is  
as cold Seasons & cold Climates -

In such perhaps there is always more or less of it, but by  
living so freely here, we have badly transferred to warm  
Climates the same Practice -

V. S. indicated in Proportion to the recency of the Disease  
as shown greater than in Phlogistic Diathesis then greatest.  
The Contraindications of V. S. are for the most Part con-  
verse of what we have mentioned. Accordingly forbid there:





over Sedative Power is present or is expected to prevail, but we are here to determine by symptoms when the Pulse is not quick nor full & especially if weakness of <sup>the</sup> person, mind & animal strength.

Other Considerations where they are ambiguous. When Sedative Causes have preceded Death may arise. A Sedative either does at first or soon well succeed in Fevers from Miasmata or Contagious Cause is to be had. We may use V. S. at first perhaps, as much Inflammatory Affections often attend.

In Miasmata & Contagion V. S. appears in general dangerous. Other Causes of Debility influence these as when the Disorder succeeds large Evacuations, other Disorders, Grief, Fear, Watching &c.

In all these V. S. is to be abstained from or used with great Caution.

When Disposition to Debility & Putrefaction. Hence V. S. carefully to be used in warm seasons & Climates.

We see warm Weather take off Phlogistic Diathesis & besides gives a Tendency to Putrefaction.

As the Disorders have subsisted long & therefore Debility a Tendency to Debility may be more expected.

If the Diathesis Phlogistica has the chief then in forming continued Fevers. In intermittents we may presume its Absence. And hence we find Intermittents & Diseases changed from them <sup>re</sup> Intermittents do not admit V. S.

If from Phlogistic Diathesis they should particularly require Bleeding; yet the more of Intermittent in Form, the more Caution must we have in V. S.



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These are the general Rules of Practice w<sup>ch</sup> regard to V. S.  
These have arisen from Considerations before Trial, but  
Practice has furnished us with Signs. If the Pulse becomes  
softer after V. S. it is a Sign of Phlogistic Diathesis present—  
If without great Debility the frequency & Celerity are dimi-  
nished after V. S. it is good, but it must be avoided here if con-  
tinuing Signs of great Debility.

If it relieves Difficulty of Breathing, the Decubitus Diffi-  
cilis, the Delirium &c we may be certain of its propriety.  
Another Mark is the Appearance of the Blood itself.  
If it has flowed in a full Stream from a large Vessel &  
solid very suddenly & it still is a uniform Coagulum  
we may suspect Deposition & Debility & hence a Contra-  
indication to V. S.

If under these Circumstances there is a full separation  
of Crassamentum & Serum & a Separation of lymph, suffi-  
ciently tough on the Top, V. S. is established. As proper  
Serum not separated is no Mark of debility, nor is a less  
separation a Mark of Phlogistic Diathesis—As I  
have found by Experience—Indeed I think that small  
Crassamentum with Buff, that dry & its Contractility  
draws up to a Purse gives the greatest Mark of Phlo-  
gistic Diathesis. When the Crassamentum is diffused &  
has a Plain Crust on the Surface w<sup>th</sup> little Serum sepa-  
rated, I look upon it as a Symptom of less phlogistic  
Diathesis. The Serum as more or less red, like the  
Lotus Carnium, shows Putrefaction.



*[Faint, mostly illegible handwritten text in a cursive script, likely from the 18th or 19th century. The text is written in dark ink on aged, slightly discolored paper.]*

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Yellow Serum too is the same, the ambiguous in some  
Measles as in some Rheumatic Cases of this Country  
in w<sup>ch</sup> no putrescency could be expected, I have seen yet.  
low Serum - This then is a mark perhaps of Phlogis-  
tic Diathesis as well as Putrefaction.

The most difficult Cases of Fevers with regard to U.S.  
Fever has subjected long & Debility & Signs of Typical  
Determination at the same time.

The Measures of U.S. Practitioners have found difficult to  
establish <sup>these</sup> many Mistakes on both Sides.

Many Fevers prove fatal for want of U.S. many because it has  
been too plentiful - I have given you Rules for determining  
1<sup>st</sup> The Constitution of the Patient. 2<sup>d</sup> The Circumstances  
he lives in - his being an Inhabitant of a Cold Country &c.  
might have added according to the latitudes - Thus intense  
Winters & Summers in northern Parts of America. Prac-  
titioners inform me that we do not bear U.S. so well as  
Europeans. The Circumstances are Debility previous, Disease &c.  
We are influenced by the Cause whether with or without  
Miasmata & Contagion 4<sup>th</sup> as more recent. 5<sup>th</sup> according to  
Type, as more continued or intermittent especially  
we judge by the Symptoms. Tho this to young Practitioners  
may be very fallacious. Thus a putrid Fever violent at  
first - then bear a single Bleeding, but a 2<sup>d</sup> maybe per-  
nicious. But the Symptoms will not down less former  
Circumstances be taken in. lastly The Effects of U.S.  
then instituted must guide us. A Difficulty occurs, I said,



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in topical Determinations, when great Debility is also present often in these Fevers from Delirium, Suffusion of Countenance, Hædon, Diuturnum, Subultus Tarditudo have succeeded Inflammation of the Brain; w<sup>th</sup> bleeding here proper. Topical Inflammation always gave general phlogæstic Diathesis, Bleeding would be indicated; but we know there may be tonical Affection without occasion. Fever & therefore not giving Phlogæstic Diathesis. In such a drawing Blood from a Distant Vein has no Effect. I have seen an Inflammatory Opacity of the Cornea, w<sup>ch</sup> could not be cured by the most copious V.S. Topical Inflammation then unless accompanied with Presence of Phlogæstic Diathesis are not Indicators of Blood Letting. In Proof of this we know that topical Inflammation may subsist under great Debility of System. Thus the Inflammation in the Jail Fevers. A topical Inflammation may be hurtful to the Part, & may overstate the Tororium, yet may not admit general Bleeding without great Hurt. Topical Bleeding, if convenient may be employed. - but difficult often to measure this. I have seen Leeches applied to the Temples go to excess on the whole System. In Affections of the Brain, topical Bleeding on of external Part of the Head, it is probable have greater Effect than general Bleeding in Affections of it. I know. But this Affection of the Brain may be to a considerable Degree not to be relieved by V.S. without injuring the System & then general or topical V.S. This is the most distressful



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Case in Fevers, tho as so we must take the ancients Remedium  
 & therefore employ, if possible, topical Bleeding.

The Quantity of Blood to be drawn is difficultly ascertained.

Physicians try Patients & Determining from the State of  
 the Pulse, the Quantity, but this is not accurate. In tying a  
 Ligature we accumulate Blood in the limb. The Resistance  
 of the Ligature is equal to the Force of the Blood flowing from  
 a Vein, because it does not flow sensibly from a Vein opened  
 without a Ligature. & therefore during the whole Operation of the  
 the Blood comes out equally. Accordingly I have found no al-  
 teration during Bleeding, when Deliquium ensued directly after  
 taking off the Ligature. Indeed we may judge when Deliquium  
 comes on before the Ligature is loosed, thus however at one is a  
 rare occurrence & the Pulse a very fallacious Test at that.

In great Tension of the arterial system, we often have deter-  
 mined the Propriety of B. rather by the Relief perceived  
 by the Patient, than by an Alteration we could feel in the  
 Pulse. Other Circumstances may be taken in, tho nothing  
 very certain. In a vigorous & moderately robust Person  
 1/2 of Blood is a large Evacuation - after this great Evacuation  
 In very robust Persons at great Phlogistic Diathesis, I will  
 not exclude this, tho this gives rise to great Delirium &  
 tedious Convalescence.

A second Evacuation is Purgatives.

To consider their Effects, we must consider that it cannot be  
 obtained without Stimulus applied to the Intestines. This  
 may be of such a Kind as to communicate Stimulus.



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And therefore certain Purgatives may hurt as much by Stimulus as the relief by Evacuation. Purgatives then for taking of Tension are not admissible, except Stimulus much confined to the Alimentary Canal. 'Tis a known Observation that the Evacuants by Purging, has not equal Effects with that from V.S. The Reason is evident. The Tension of the Intestines much connected at the whole system, but the Connection of it at the sanguiferous System is not nearly so great as the Connection of Tension of the Different Parts of that System. Thus Loss of Blood from a Vein is as good perhaps as ~~loss~~ from Intestines.

All the Reasoning against Emetics in V.S. will apply to Evacuation of Purgatives. This may be the Reason why Practitioners have <sup>added</sup> Purgatives as Evacuants, in Fevers. Hence Emollient Clysters substituted. But besides the Evacuation by Purging takes off the Determination to  $\gamma$  Skin, so useful in Fevers. According to a spontaneous Diarrhoea or severe purging has been always reckoned hurtful in Fevers, & hence Effects of purgatives not answerable to what we might expect from Evacuation. Nor have they been much recommended. Sydenham condemns them in Pleuresies & Pneumonies. here we might suppose however they would derive from  $\gamma$  Viscera, as well as V.S. But the Consideration of taking off Determinations to  $\gamma$  Skin must be taken in. The antiphlogistic Purgatives may be used, but from the Danger of Emetics from their deriving from the Surface not much employed.

Yet in some Fevers Purgatives are very good. Let us consider whether



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in such Cases they do not act differently from demonstrating the general Tension. - They are good in Fevers called bilious, that is, Fevers with considerable Determinations of Blood to the abdominal Viscera. This I said was peculiar to Fevers of the intermittent Kind especially the autumnal, because the Bile seems under a particular Vibration at that Season. I suppose with Practitioners that Bile in these gives acid Matter & by stagnating gives Rise to the Absorption of it. & hence Purgatives useful. This Affair of Absorption is not established certainly; but besides, it appears that Fluids determined to the abdominal Viscera do not act always by the Quantity moved into the alimentary Canal, but by being accumulated in proper Vessels occasion Spasms. In Proof we find that the Liver &c are much enlarged. The opening the numerous Excretories of the alimentary Canal may be the very way to obviate these Effects.

This shews the Application of Purgatives in Intermitte<sup>nts</sup> & Remittents. It is also the Foundation of Purgatives in putrid Fevers, where Ferment has often a Tendency to induce Intermitte<sup>nts</sup>. Hence so much Talk of Chrysals of Tartar in putrid & malignant intermitte<sup>nts</sup> Fevers, so frequent in warm & climatic especially when exposed to marshy Exhalations.

These Fevers frequently attended Petechia, but then not always a Mark of Retroaction. In nervous Fevers from human Effluvia, this is the Case when attended w<sup>th</sup> Petechia.

Dr of Meutz proposes curing all Petechial Fevers by purging. Many of his Proofs are very ambiguous, thus he used *Exymel Scilliticum* & *sternus* is an Emetic as well as Purgative. he used *Exymel Scilliticum* & *sternus*



(a) This is a Quotation from Alexander's  
Epays - the sentence is incomplete.

me to observe that Tartar Emetic has been used as purgative. I believe that it has good Effects when it purges; the many late Practitioners quite overlook its evacuating Effect, it is certainly very considerable. I shall endeavour to show that Purgings as mere evacuations have not been so successful.

A third Head of Remedies remains under the general Title of Refrigerants. The particulars are acids & certain Neutrals. That both are sedative many considerations lead to - particularly their experienced Efficacy in Hemorrhages I can only be owing to sedative Powers. Acids besides, quench Thirst & therefore Stimulus. by taking of the Dyspepsia & Clammyness of the Mouth. by resisting Putrefaction at least in the Pains &c if not in the Blood. by promoting Urine & profusely Perspiration they may be good. It is probable that vegetable Acids promote Sweet. That fresh Fruits are the best Evacuants for acrid Bile. In all putrid & Inflammatory Fevers, acids are undoubtedly proper. In nervous Fevers their sedative Action is not hurtful. Like that of neutrals it probably occasions a Reaction of the Sensorium that determines to the Surface.

Neutrals - What Powers they have as Sedatives is still uncertain. In Cases where Momentum of Blood is so violent as to threaten immediate Eruption, a Dose of Nitre might

This is a refinement that perhaps is scarcely admissible. Their Action in these Cases is perhaps the reaction which they occasion determining to the Surface. This sedative



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Power is compared to a few of the neutral Salts. Many are accompanied w<sup>th</sup> great Stimulus to every Part of the System. We shall speak of Neutrals as Diaphoretic. I shall only observe here that they may be antiseptic in the Prime Vias the rest in the Blood. They are also Diuretic. In affections of the Lungs, I have seen the Cough aggravated by neutrals & Acids. An Instance in a late Writer on the Plague. He found Vinegar a useful Diaphoretic - but in weak People & the Physical he found it give Oppression of Heart, Cough &c. The Preference in Acids is given in Favour of Uricolic. The Mineral & nitrous have particularly the Effect of stimulating the Lungs, especially the former.

We proceed to the second general Indication, w<sup>ch</sup> is to restore Vigor of the Sensorium. particularly the equable Distribution of the nervous Power to the System or general perhaps to the extreme & local everywhere. We shall possibly repeat some of the Remedies mentioned under former Heads, but the same Remedies may answer different Intentions. I must arrange the Particulars under certain general Heads as they operate to the general End in View. Some particularly operate by restoring the Distribution of the nervous Power to extreme Vessels. Others in restoring the Determination to the Surface of the Body, as this is the most palpable Instance of Determination to extreme Vessels from the Nerve System. Deluents, Neutral Salts, Sudorifics & Emetics are the internal Remedies for this Purpose. Externally Blistering & Warm Bathing



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All these act partially by restoring more particularly the nervous Power to the extreme Vessels appearing especially in the Determination to the Surface.

The 2<sup>d</sup> are such as especially restore the Tone of the arterial system. The Action of the Heart & Arteries I have said was necessary to excite the Action of the Sensorium. but often this fails for want of Action of the Heart & Arteries. It is to be restored by cold Bathing Tonics & other Stimulants called Cordials.

43<sup>d</sup> Head of restoring regular Action of the Sensorium in antispasmodics. We are to consider these in 3<sup>d</sup> Indication. Diluents - This is an Example of the same Remedy answering different Indications - They were a Part of an Antispasmodic Regimen by relaxing Acrimony in the Prime Veq, in the fluids of the Mass of Blood & diluting too, if you please so favourable to Striving & Action, as favouring Secretion & Excretion.

From their favouring Excretion by Urine, Perspiration  
Sweat, they belong to this Head, as they carry on Circu-  
lation more fully to the extreme Vessels & thereby con-  
tribute to restore their Action or at least obviate their  
Constriction. If this can be done, by the Bath of an  
warm Fluid, it may be done w<sup>th</sup> Safety & Advantage.  
Water then is justly acknowledged the Basis of Diluents.  
and stimulant. Impregnations may be hurtful.



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It has been alledged that Pure Water is less apt to unite with our Fluids than some Diluents of a more acid Kind - that Water cures off soon by Excretion, & doing so it answers the Purpose of opening Excretions but is less fitted for taking off Acrimony or moving Lentor. Physicians then have found that impregnating Water with viscid Matter is usefull, and have they employed impregnations of farinaceous Seeds, as less apt to pass off & most apt to excite Acrimony.

Critical Salts - As antiseptics & antiphlogisticatives I have said they may be used; I have said that little Dependence is to be had from their refrigerating Power, as they cannot be thrown in in sufficient Quantity. And tho they should, yet of little efficacy, as the refrigerating Power seems immediately to excite a Reaction of the Whole, at least of Part of the sanguiferous System.

They seem thus to have much Power in restoring Action to the Externel Vessels & therefore of curing Fever, as depending on this. That they operate thus, appears from the Heat on the Surface attending their Exhibition from the Sweat that often follows & especially their operating Effects of Cold Fit in Intermittent Fevers.



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that they act thus appears from the analogous Operation of Cold Water. We might enter into curious Disquisitions of the extreme Vessels being as it were, the Instruments of Tension, of their Connection with the Sensorium, of this with the Stomach & thereby the Stomach with the extreme Vessels. This would give Illustration of our Theory of Fevers; but it is sufficient to know that Nutrients obviate Spasms of extreme Vessels & thereby I suppose Spasms are overcome by restoring Action to some Part of the sanguiferous System. This is performed probably by neutral Salts.

Three Questions occur here.

1. How far Limits these may be carried.

2. Where properly to be applied.

3. What neutral Salts are proper. As to the first we know that they are not always efficacious.

The greatest Advocates for them acknowledge them only efficacious in Tertians & Quotidians.

It is necessary to know what is the Effect. If they do not cure, but contribute to it, why are not the Doses increased & more frequently repeated? I suspect they may thus do Harm. A Hot fit formed to a certain Degree only is necessary to remove a Fever. I have observed that by too violent hot Set, the Patient was dissolved in Sweat & the Fever as far from Solution as if no hot Set at all.



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I suspect that the constant Use of neutral Salts  
would prevent that proper Degree of hot Fer<sup>ment</sup> is ne-  
cessary for Solution of the Fever.

The Spanish Physicians according to Coghorn allege  
that from Experience it appears that intubating Drinks  
too soon prolongs Paroxysm. I conjecture here that  
any Heat whether Cold as refrigerant or hot as imme-  
diately relaxing the Surface will tend to this.

I imagine I have found the Reason of the Abuse  
of neutral Salts here.

This leads to our 2<sup>d</sup> Question of the Propriety of applying  
When the cold fit is come on & 2<sup>d</sup> When Not.

A 3<sup>d</sup> Case when a Spasm in the Stomach, it may be  
properly taken off by neutral Salts. This appears in  
intermittents in w<sup>h</sup> I prefer their chief Use to the Time  
of Exacerbation. In the ordinary Exhibition of saline  
Mixture, it is a Placebo. If we would have Effects larger  
Doses must be employed.

Choice of Neutrals? A Question undetermined.

Few Practitioners have Diligence or Capacity for  
inquiring into these important Points. Sal Ammoniac  
digestive salt have been reckoned most effectual - to  
stop Vomiting in Fevers we have employed saline  
draughts. What Difference in one or the other & which



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propagated to Intermitents, continued not known.  
The Sp. Mindereri as exhibited in general is favourable.  
have seen it used in prodigious Quantities without  
Effect. I only observe here that this is not ascertained  
Sudorifics. Thus at present on an uncertain footing.  
they were formerly considered as the chief Remedies &  
Sydenham properly withdrew them. But it is  
not certain that Sydenham & his followers did not go  
too far, taking Sudorifics for every means now or life  
stimulant, w<sup>h</sup> may promote sweat & Fevers in so termi-  
nate in sweat. Neglecting that the Advocates for  
sweating are now deprived of the support of morbid  
Matter to be thus expelled. I think that upon this gene-  
ral Fact of Termination in sweat, we might take  
Arguments for Arts promoting it. Many specious  
Reasons might be deduced.

Since Sydenham few Advocates for sweating. Dr. Meigen  
in his mechanical Practice has however alledged  
that most Fevers may be thus cured, but not con-  
clusive. for 1<sup>st</sup> in Intermitents many sweats  
without final Solution. 2<sup>d</sup> final Solution in Fevers  
are not in proportion to the sweat. Critical sweats  
often moderate, often Intermitents are aggravated  
by profuse sweats & their length continued. Intermitto



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so are often attended w<sup>th</sup> Sweats, that protract by Dissolvent.  
Sweats urges are apt to render Intermitments continued  
much more pernicious. This has been said of Dr Morgan.  
But on the other Hand we have his Testimony of curing  
all Fevers by sweating, & must certainly go  
some Length notwithstanding his Prejudices. I have  
known other Physicians that followed the practice  
successful, - In the Age of Aesculapian had we time  
to consider them many Facts occur. & some fevers ab-  
solutely require Sweat. The Point then is not deter-  
mined. I think that if a Fever can be perceived app-  
roaching before Formation of Spasms sweating may pre-  
vent this & by restoring Determination to & extreme  
Vessels may abort the Fever. We have Proof of this  
in the curing Intermitments by supporting Sweat  
till the Time of Accession. By such Means does  
Dr Morgan say he cured the most obstinate Quartana.  
Instances in Practice of Continueds cured by the same  
Means. It may be said here that the Fever would not  
have come on but from the Circumstances indicating  
it & the putability of the Practice we may suppose  
it effectual.

Again Sweating may be admissible in a recent  
Spasm. This appears from Experiments.





Sweating will be found useful when from the Nature of Epidemics we know it to depend on a remarkably sedative Power. In Proof of this the universal Practice in the Plague has been sweating.

Many Disputes - but we neglect the Objections that arise from Malad Administration of Sweating, we shall find the most happy Cure of the Plague to have been by sweating. Deemsterbrock was most free in this Practice of late Chili - & others late Practitioners have waited more for Nature, but seized the first Opportunity of promoting this Tendency. Other Proofs of sweating in the sweating Sickness. Many Testimonies of the Usefulness as well as the Inefficacy of Sweating - To determine here we must observe that in cases where Sweating is most useful if this is pushed by Force, that is by Inflammation, Stimulus, Load of Bad Blood, or if with the sweating, Delirium, Difficulty of Breathing, or the Scurvy, partial, or at least protract, if not aggravate the Disease. Continuance of the Hot fit depends on Phlogistic Diathesis, whatever lengthens this has a Tendency to produce this Diathesis, & therefore give more Danger. Vehemence of the hot Fit besides may occasion



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topical Determinations of the greatest Danger in Fevers. The Urging of Sweats then requires great Caution. - My Rules here are that

1<sup>st</sup> When Phlogistic Diathesis or the Spasm necessary to this, urging Sweats is very hurtful. On the contrary when Spasm not formed

The Question of the applying of Sweats particularly relates to the yellow Fever of the West Indies. This appears to turn out fortunate only when in y<sup>e</sup> Beginning has been allowed. I am almost persuaded that the same thing is to be done as in the Plague. we must not reject violently but moderate the Tendency when it appears. Many facts show the Danger of urging Sweats too far.

When Symptoms of the Hot fit are strong, our here a Tendency to sweating is not to be encouraged, as we may suppose the Hot fit that the Sweat will be pernicious, and more moderate would have been salutary. - Topical Determinations are too to be apprehended from urging Sweats. I would here give 2 dogmatic Rules. Where Diathesis is Phlogistic, & evidently prevails is the Spasm depending on this, or indeed being obstinate from any Cause, sweating perhaps is not to be pushed.

Mr. Chenot speaking of the Cases for or against Sweating, says see the Author's writings -



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I would then forbid sweating under any very violent Spasm. Before Spasm is formed & especially when recent & 3<sup>d</sup> when Miasm & Contagion of Sedative than Stimulant, sweat is allowable. In 1<sup>st</sup> Perhaps the Disorders may be prevented by sweating. In 2<sup>d</sup> Before Spasm much formed it is more safe. In 3<sup>d</sup> When we know that the sedative Power well multiplied by Fermentat<sup>n</sup>: or induced Debility by Repletion of the Viscerous we would wish to employ sweating. The sweating in these Cases must be excited by the least Stimulant, as Liquid Applications, bulky warm fluids that act chiefly by Bulk. It is as necessary that sweat be not very profuse, but moderately carried on. Celsus & Aetius were where to inculcate that a more full Respiration is best, & that the Relief is not a Degree of the sweat. We may from our Directions find too why sweating is best after Blood-letting. Hence Sydenham promising V.S. to sweating in the Plague was well founded. It has been observed that a previous Bleeding not only induces sweat safer but also purging.

In the late Plague of Marseilles it was a universal Practice - Simplicius ventured on V.S. but commonly gave a Vomitt to clean the Prime Visc. If this did not purge they opened the Belly, & then on the least Effort of Nature promoted sweat, on which the cure was rooted. The previous Purging they found useful & this we may understand from the condition



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of the Vessels of the alimentary Canal, being taken off thereby the dangerous Accumulations in internal Parts abated. - As to the Degree of sweating not established. - Different Opinions. Diemerbroeck thought that he might for the sake of the Patient allow Sweats to subside & renew them again. But Sydenham says that those Sweats are very Dangerous. The sweating was attended at appearance of Spasm & the Renewal attended at Aggravation of Symptoms. Sweats then, that the Patient may support them a sufficient Time, should be moderate, violent ones for a short Time have been often pernicious.

In Fever there is an Exacerbation in 24 Hours. I imagine that Sweats ought always to be continued till we are sure the next succeeding Accession is passed over & hence must be intended beyond 24 Hours. The good Effects of sweating depends on its being equally determined to all Parts & down to the Extremities of the Limbs. Dr Chalmers of Carolina knew more of sweating but takes especial Care to determine it to Feet. If we wish not to apply general Stimulant sufficient for this, yet by particular Stimulants to Extremities the End may be obtained without the Inconveniences. Hence he puts Hot Bricks to Feet. This Author has presented us with a Difficulty. He insists that sweating is useful in Inflammatory Diseases as Pneumony. If he is right our Reasoning is doubtful if not false.

The only Act by which I can abate it, is that as these



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Pneumonias may take an Intermittent Type, I would suppose them not Diopathic. Pneumonias but only accidental Determinations in pure Fevers. This however wants further Confirmation.

I might enter on the Remedies employed for sweating, but it's necessary as I have said no Stimulant Prepare. Opium has been pretty universally the Sudorific. The active Part of Methuadate & Theriac perhaps is Opium. In the Plague of Marseille simple Opium & Laudanum answered equally well. As many Objections have been against sweating by Narcotics as by Stimulants, however we explain it, Opium is reckoned useful in Phlogistic Diathesis.

But as Opium sweats by taking off Construction of the Extreme Vessels, this more than compensates for Stimulus therefore may not such Sweats be useful in Spasm? My Practice does not determine this. Sweat may be rendered safer, if produced by such Remedies as operate more by taking off Relaxation of extreme Vessels than by Stimulating Heart & Arteries. Such are Neutrals & Emetics.

Neutrals are not yet Determin'd, never have been employed in the Plague: but Practice now shows that they are Sudorifics of the least Stimulus & best fitted for avoiding the Dangers of exciting Sweat in great Hemipiles as mentioned by Celsus - let us then consider whether the Objections against sweating that have arisen from



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using Stimulants, may not be remedied by using neutral Salts.

Emetics. The present favourite Sudorific in Practice. Dr Haer is the only famous Practitioner who opposes their Use. We must consider them as producing

1<sup>st</sup> Complete Vomiting

2<sup>d</sup> Producing Nausea without Vomiting.

Vomiting generally useful by cleansing the Stomach, & frequently the Seat of Irritation in Fevers.

Useful as the Operation conveys bilious pancreatic Ducts & Excretories of the alimentary Canal, particularly useful then for evacuating the Accumulations mentioned.

3<sup>d</sup> More Considerable Action is the Determination to the Surface w<sup>ch</sup> they certainly do as well as from acting on Extremities as by the Exercise. That operates on these Vessels appears from Natures bringing on hot Fit by vomiting. & also by their so frequently curing Intermitte<sup>nts</sup>. The Case in w<sup>ch</sup> most useful when Inflammation on the Stomach or other topical Det<sup>er</sup>minations in great Degree. Often not effectual from their Effect not being sufficiently durable. If the Action on the Stomach is necessary in curing Fevers to be supported some Time, vomiting is improper.

The Ejecting too of Vomiting will occasion a proportion Depression, As appears from the Weakness felt afterwards; & especially from Practitioners observing that if whole Operation of vomiting is over before Accession of intermitte<sup>nts</sup>



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Paroxysm, this becomes more violent. - This I can only explain from their inducing Debility.

Besides Evacuators & general Agitation Emetics act on extreme Vessels by Action on the Stomach - The Proof is that when only giving Nausea they often give sweat, or without this relieves the Fever - This is to be explained I think from their restoring Action to extreme Vessels. The Action of Stomach not only produces Action in extreme Vessels of the Surface but also in extreme Vessels every where, & therefore a nauseating Dose of Emetic may operate Obstruction of the Viscera without being applied to Intestines, but when for this Purpose we generally give in such Doses that they reach the Intestines. As to the Particular Administration we must first consider the Time of the Fever when most proper to be given. It has been found in that a nauseating Dose even before the Fit has with Sweating at least rendered the Fit less considerable & often cured. It has been found that the Approach of a continued Fever has prevented the Disorder. Dr Lynn has given many Facts in Proof of it - He supposes it owing to the miasm & Contagion being particularly lodged in the Stomach & thereby thrown out. But without raising Doubts about this Seat of Reason or the Reasoning that would follow I say that Emetics are effectual when no Vomiting has occurred or other Means of Expulsion & then we

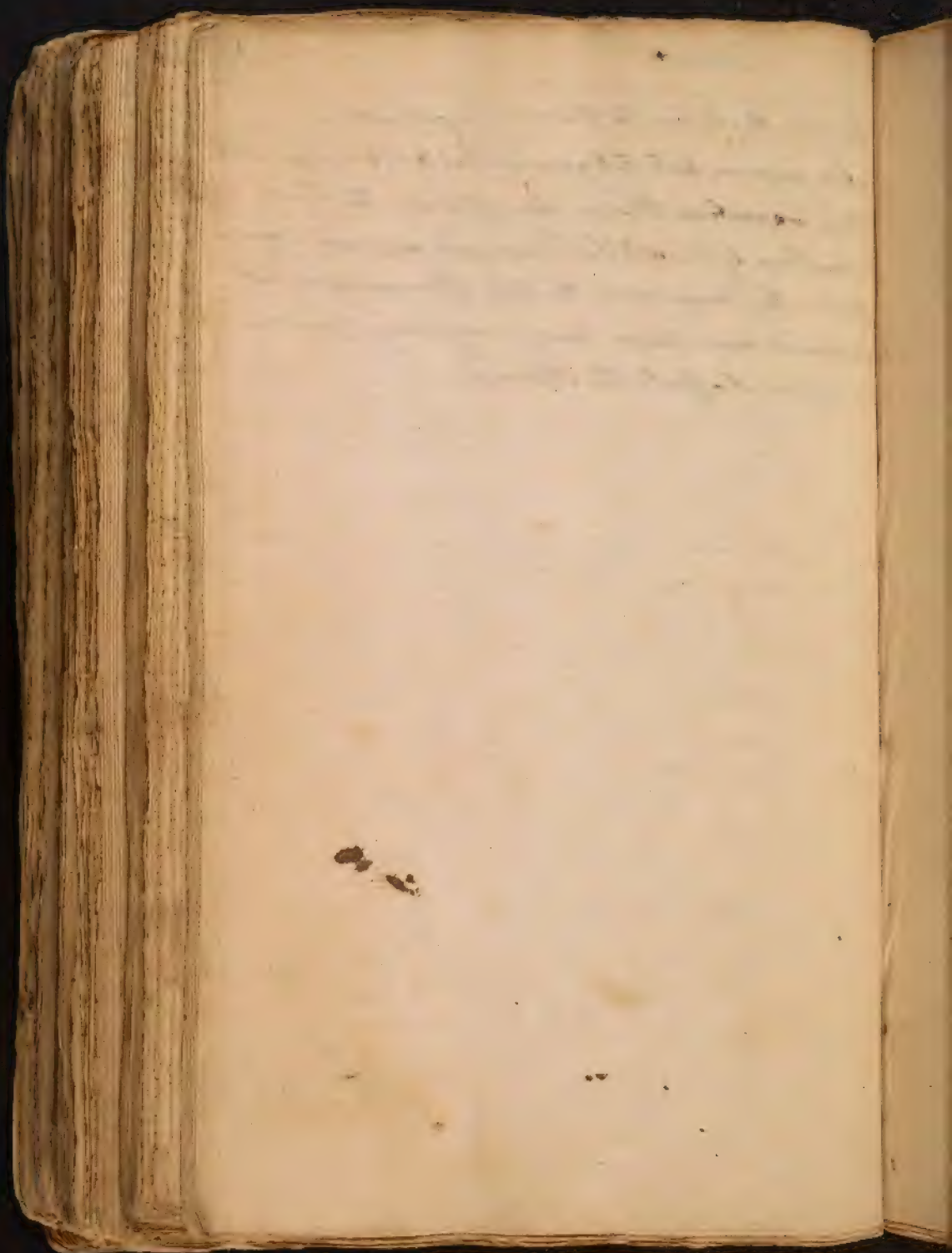


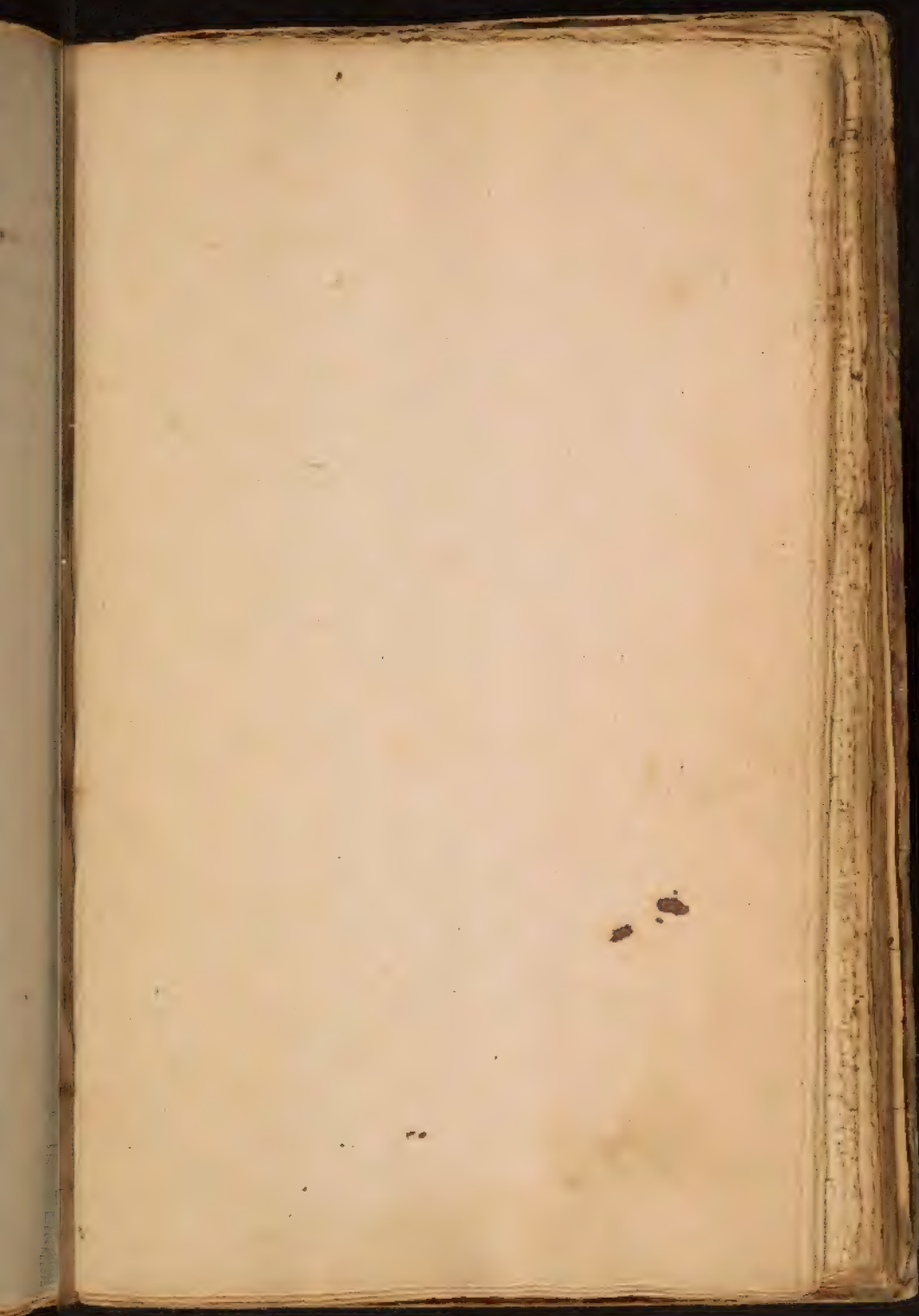
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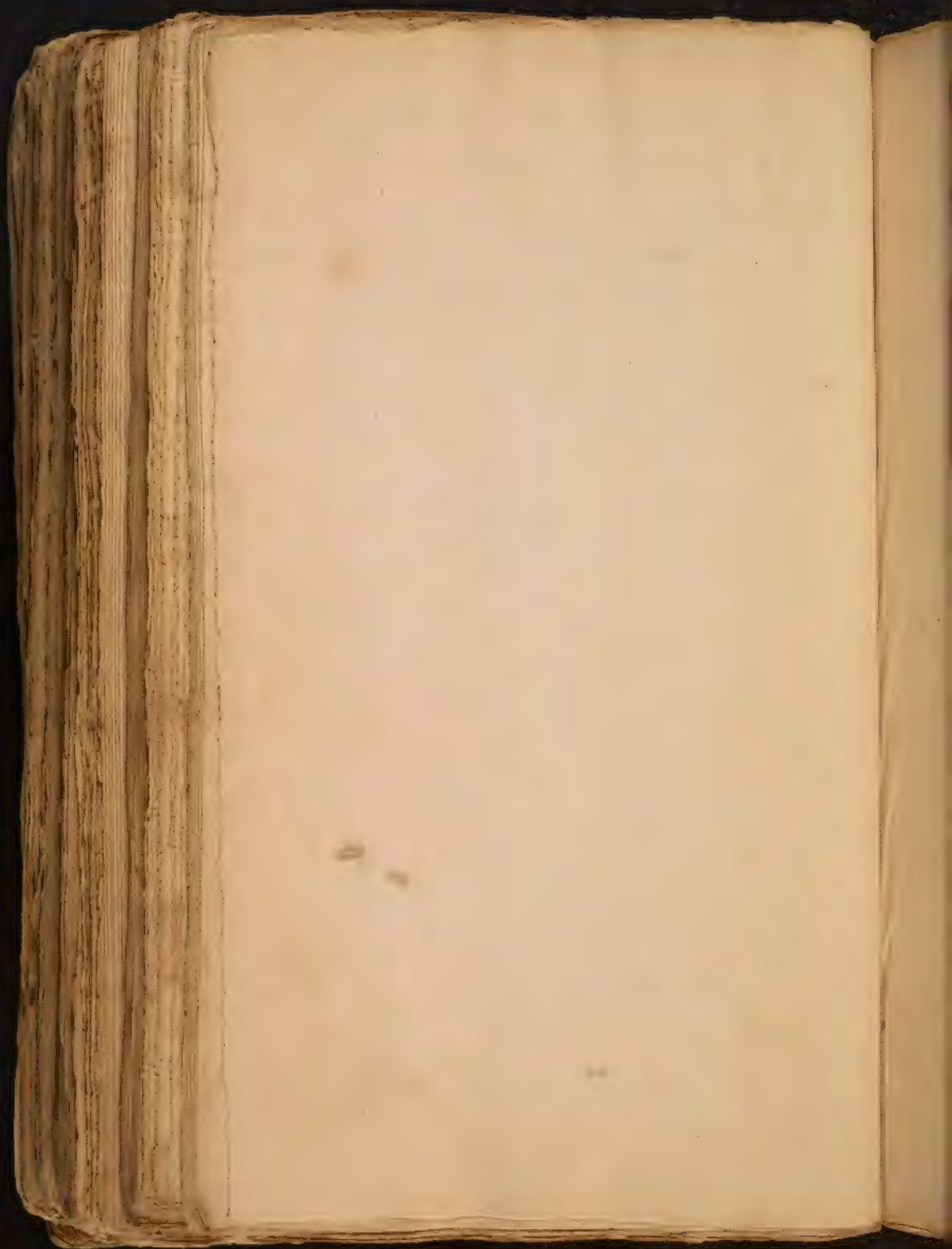
rather refer its Action to the evacuating Spasm ~  
Emetics given in cold Fit gives an End to it & brings on the  
Fit & by repeating this, we may often cure the Fever.  
The Vomiting of the cold Fit I have said appears a means  
of Nature for bringing on the Hot. Its coming on late  
may depend on a Spasm being necessary for some  
Time before it affects the Stomach ~

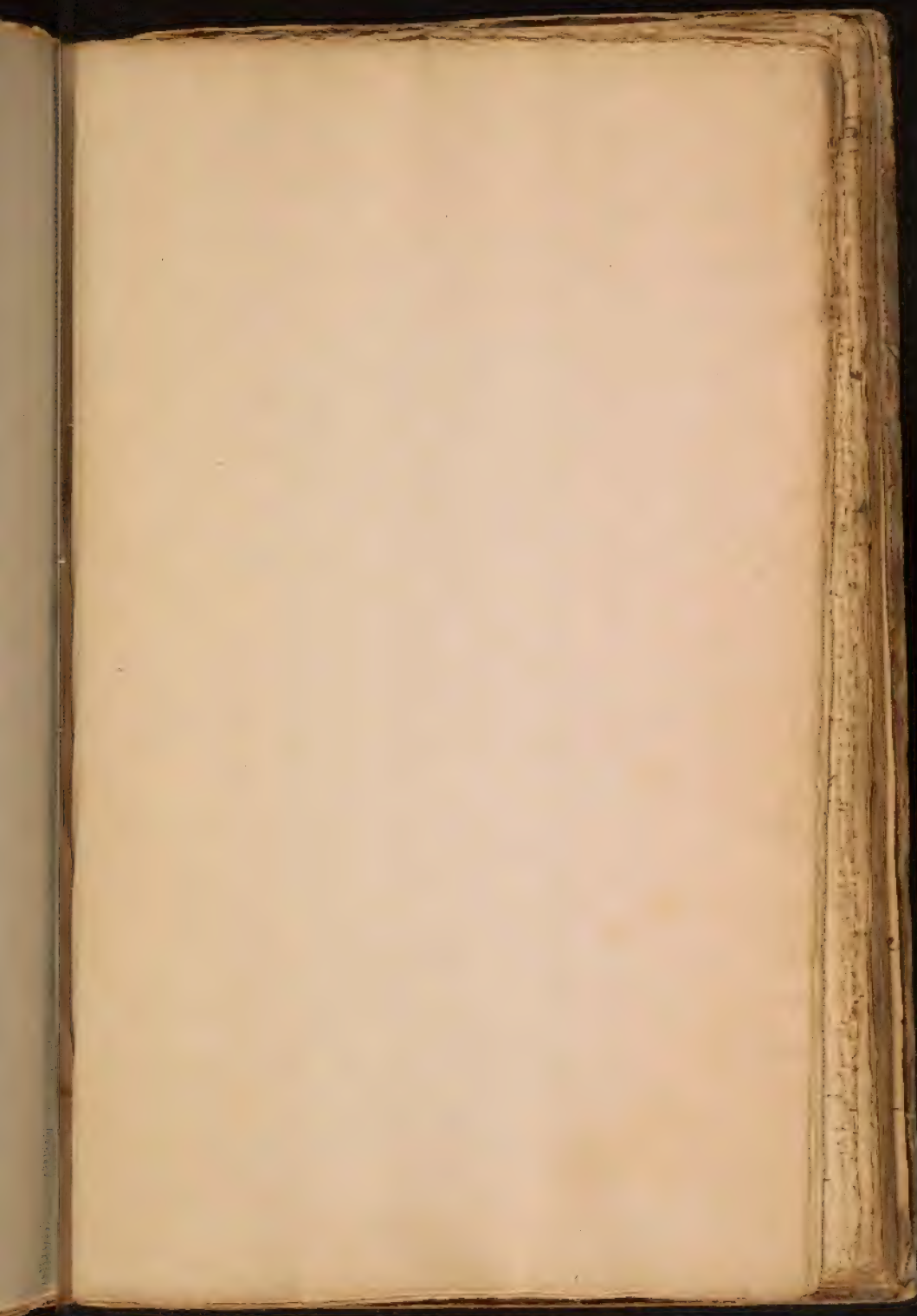




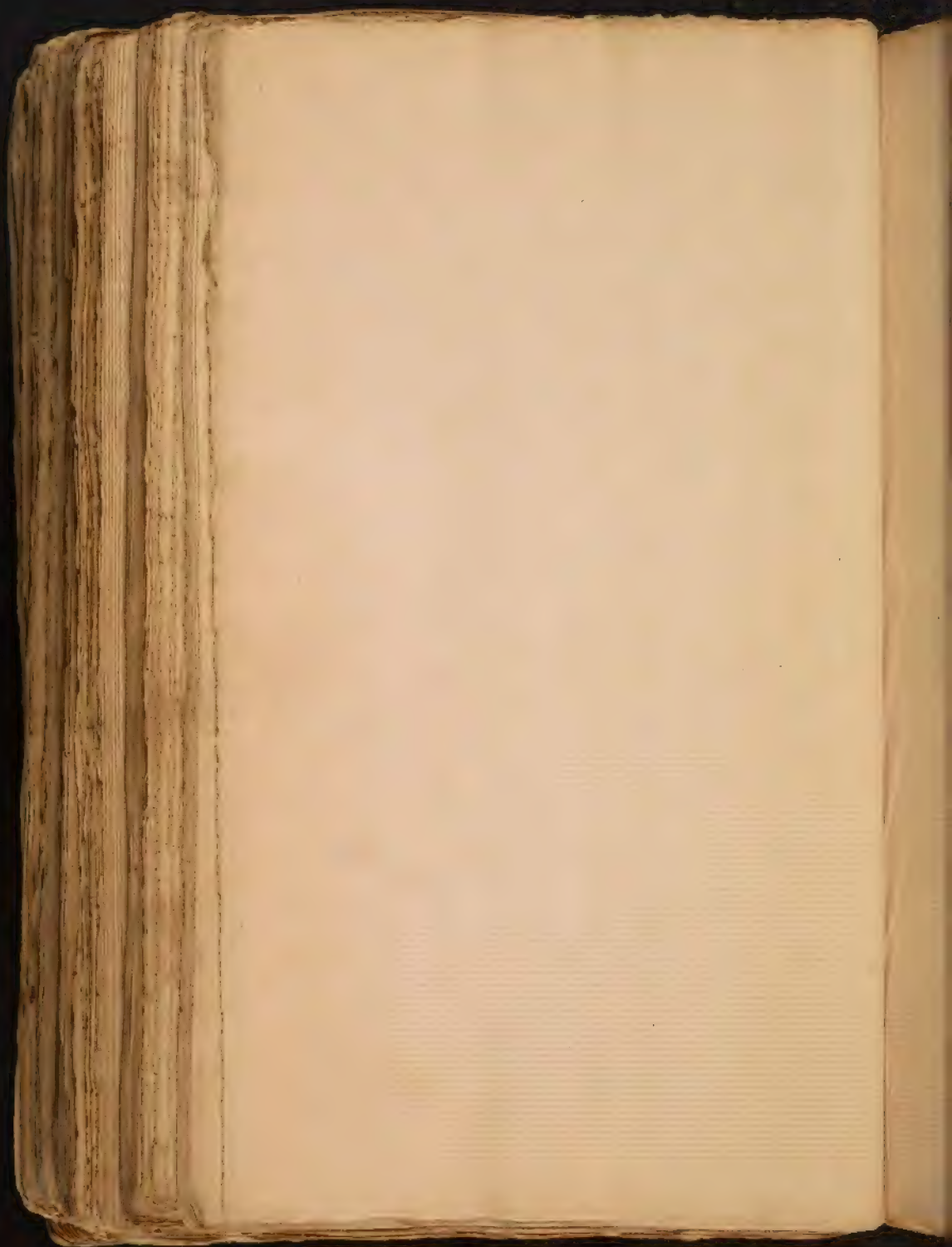


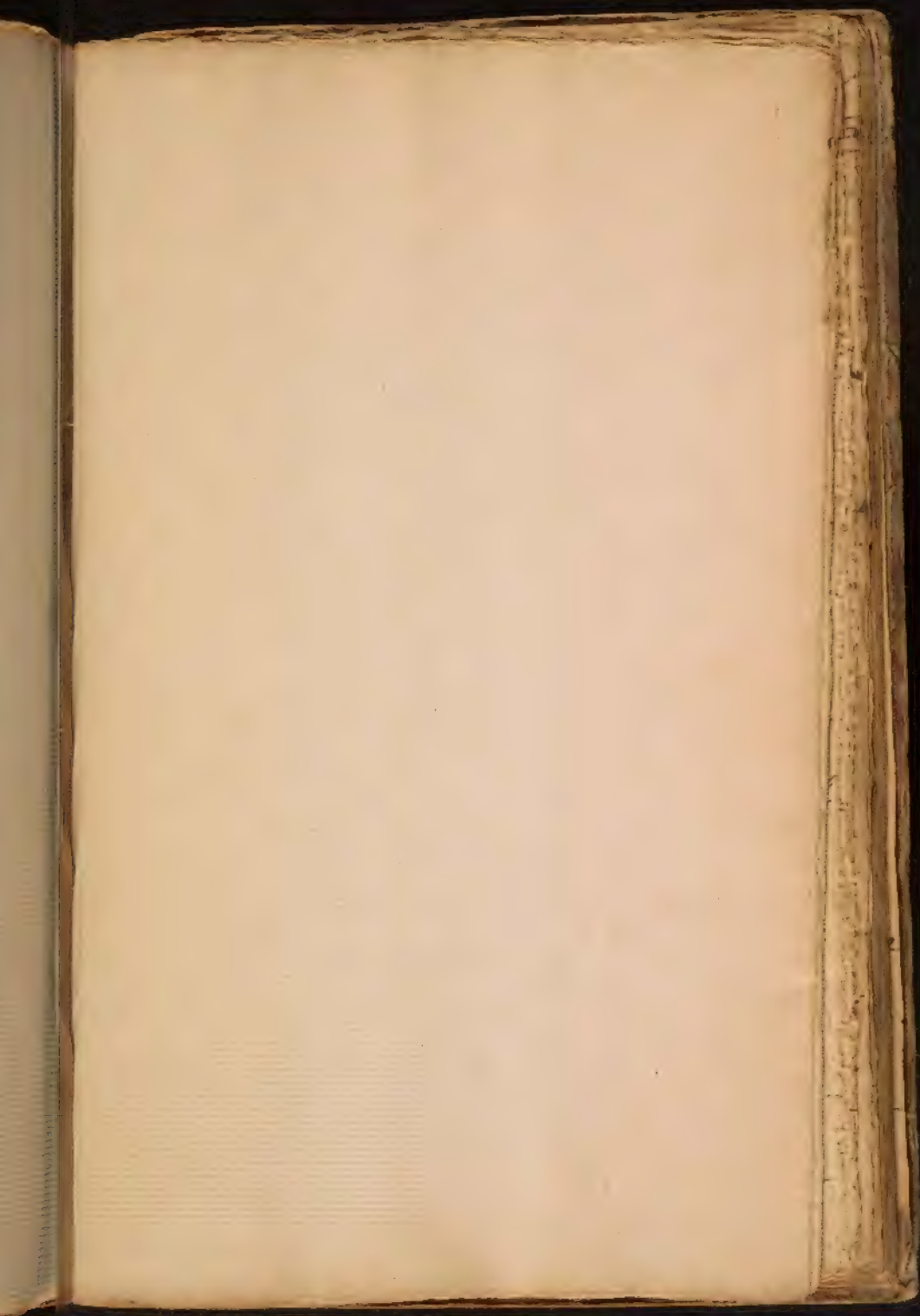






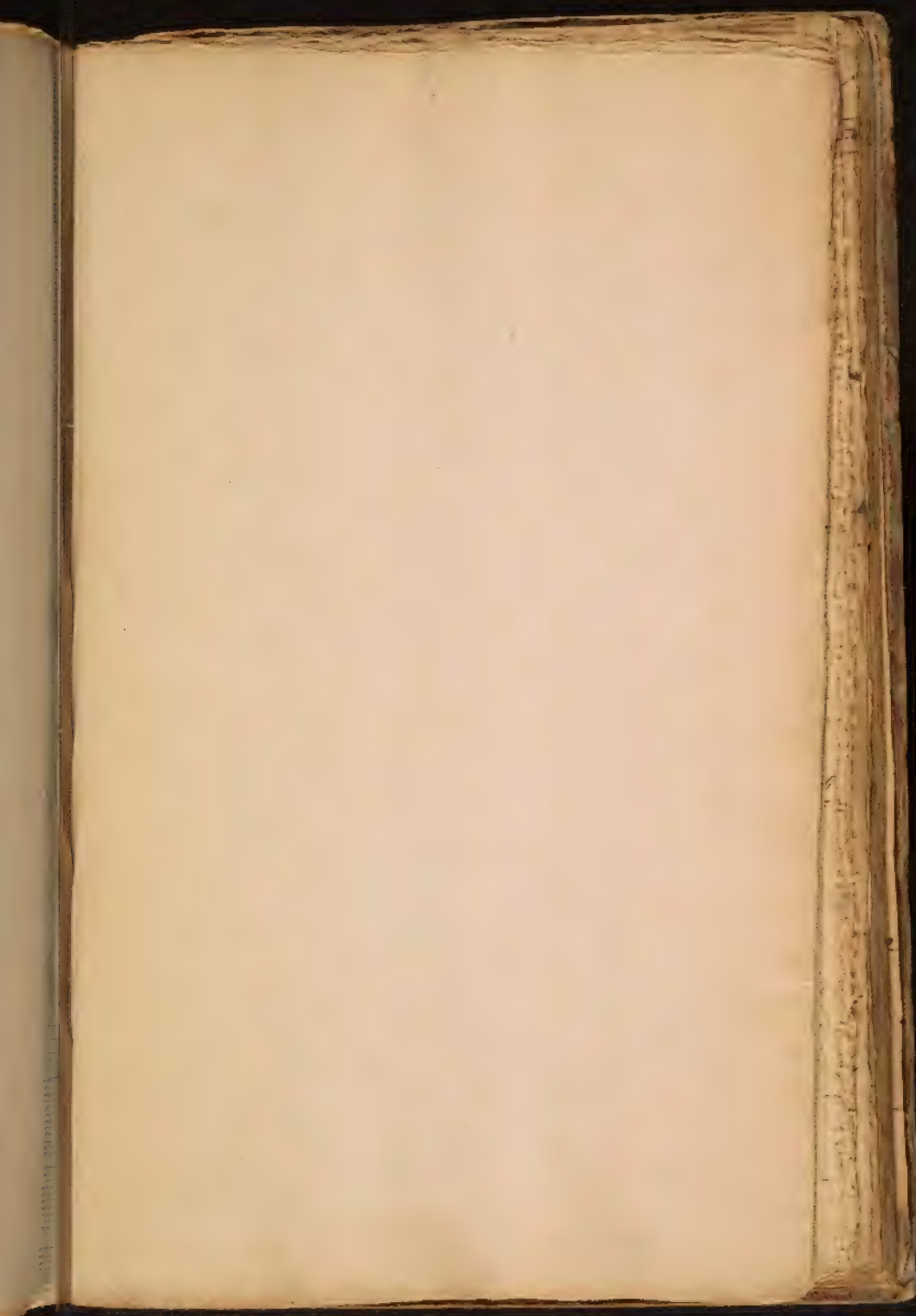




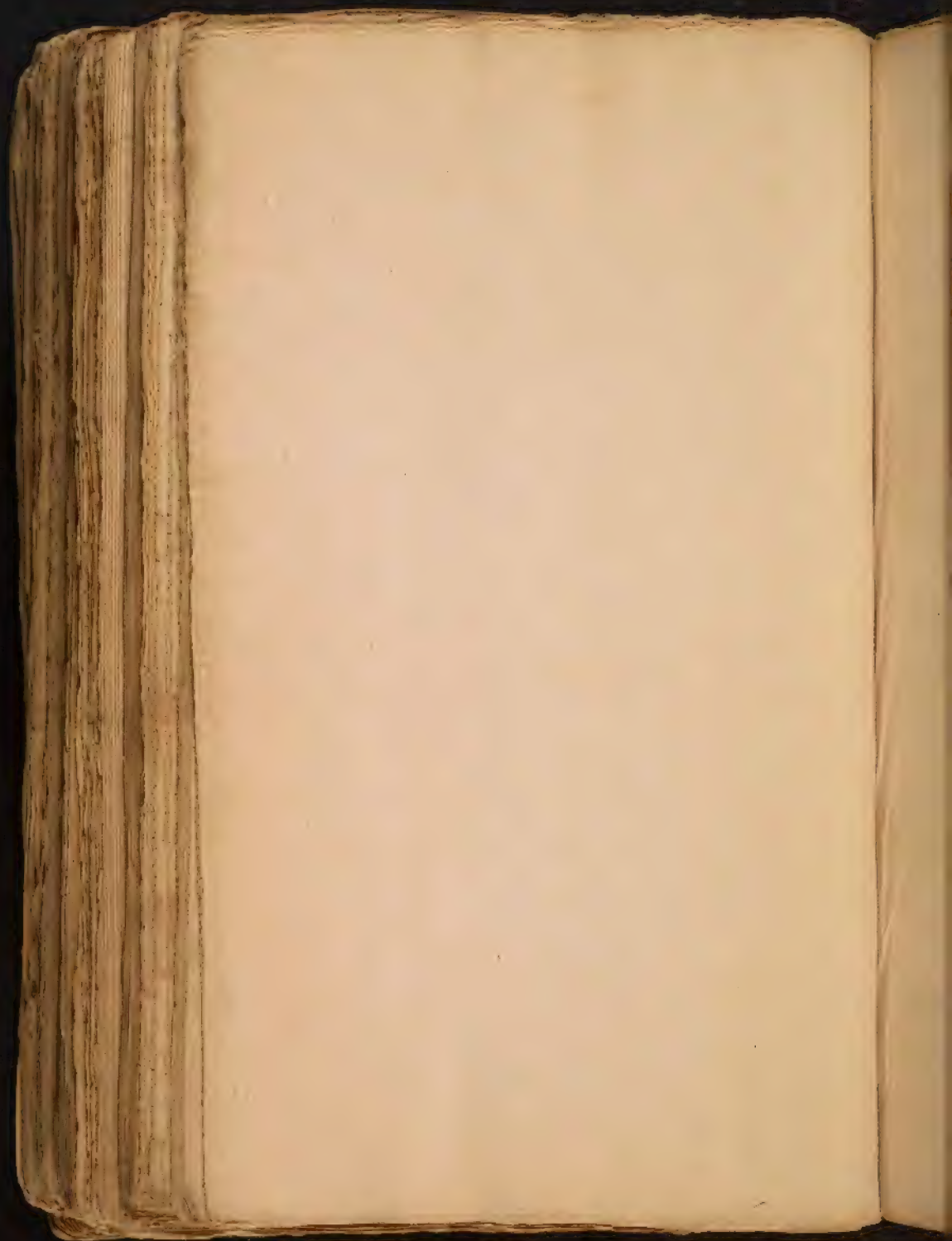


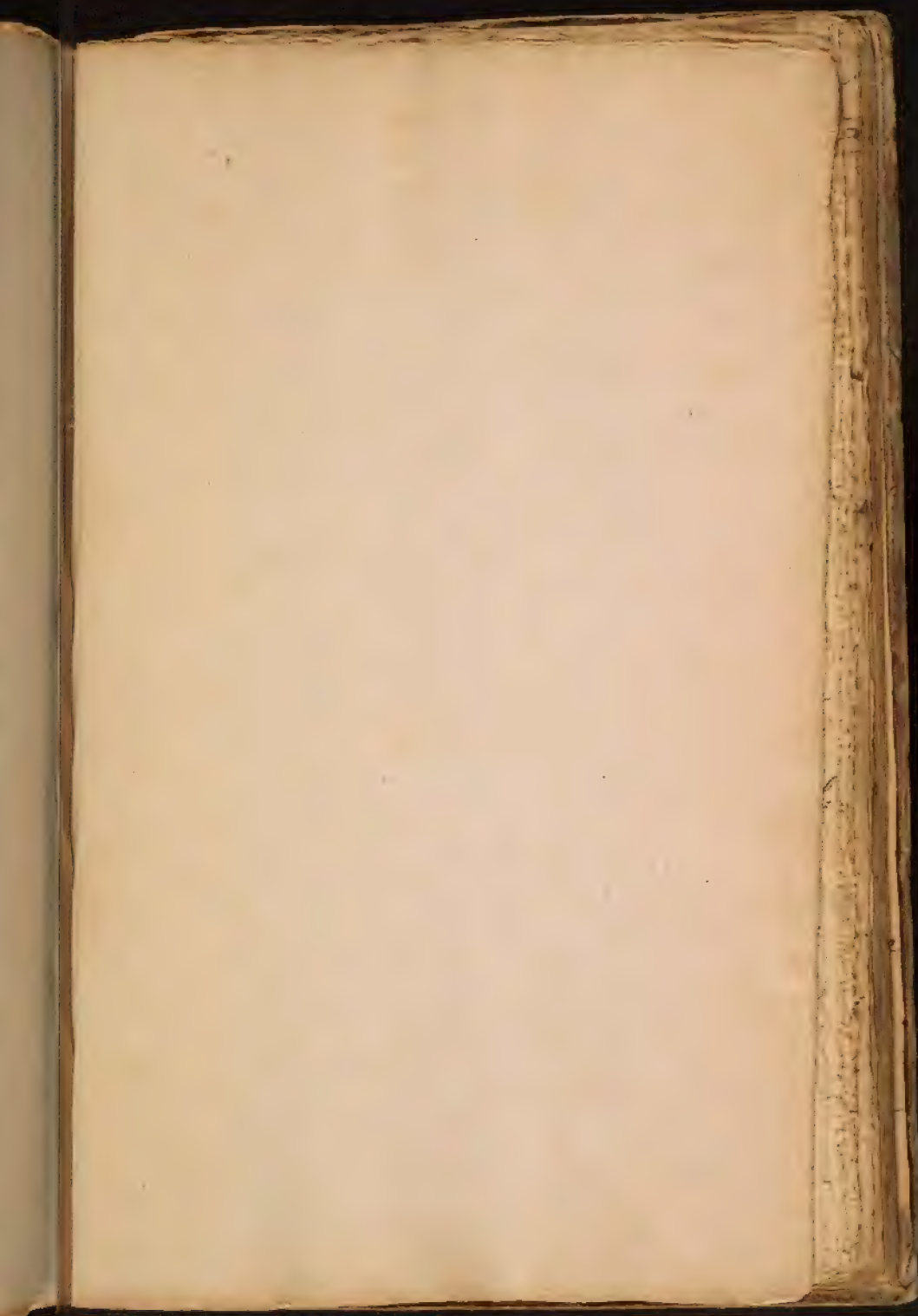




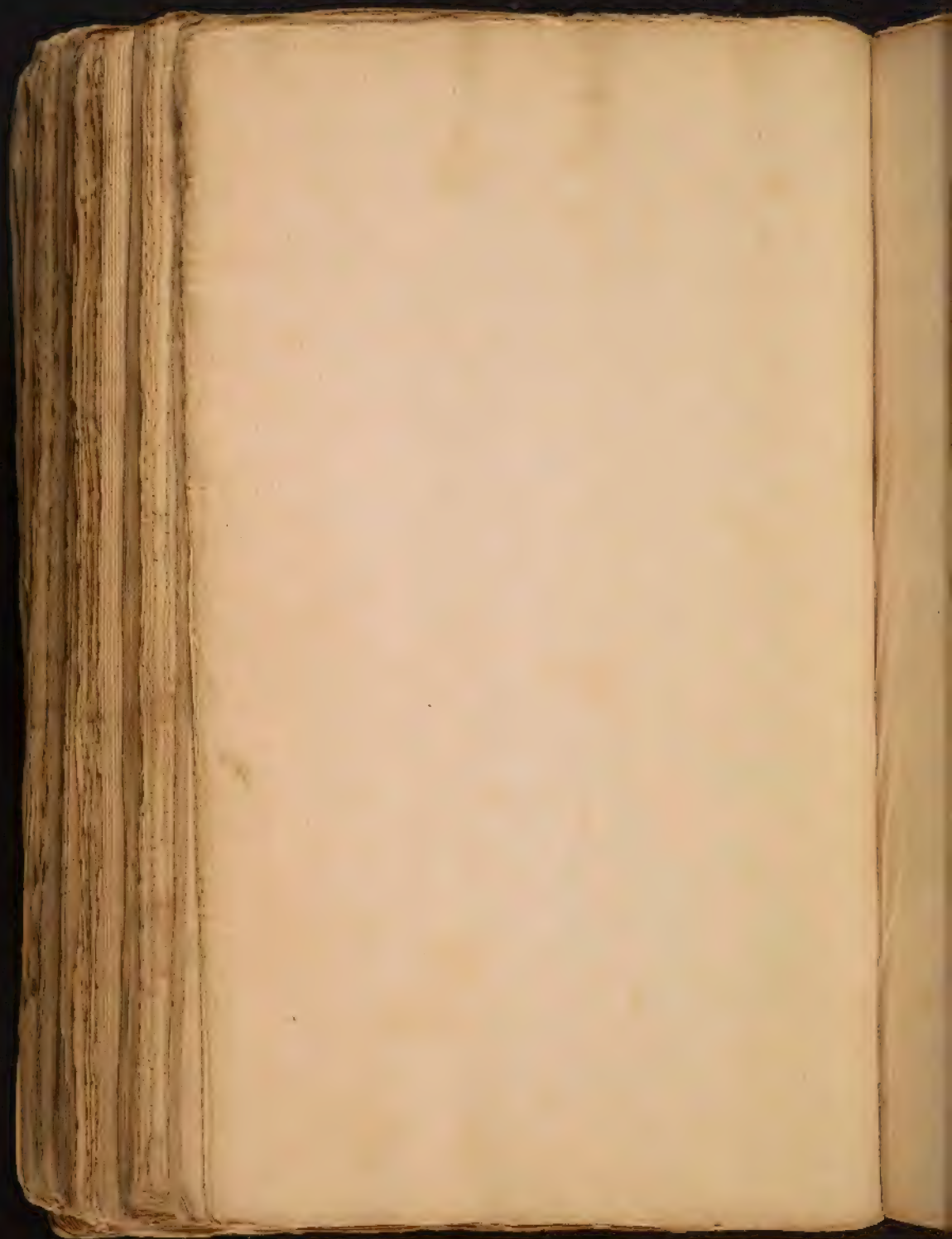


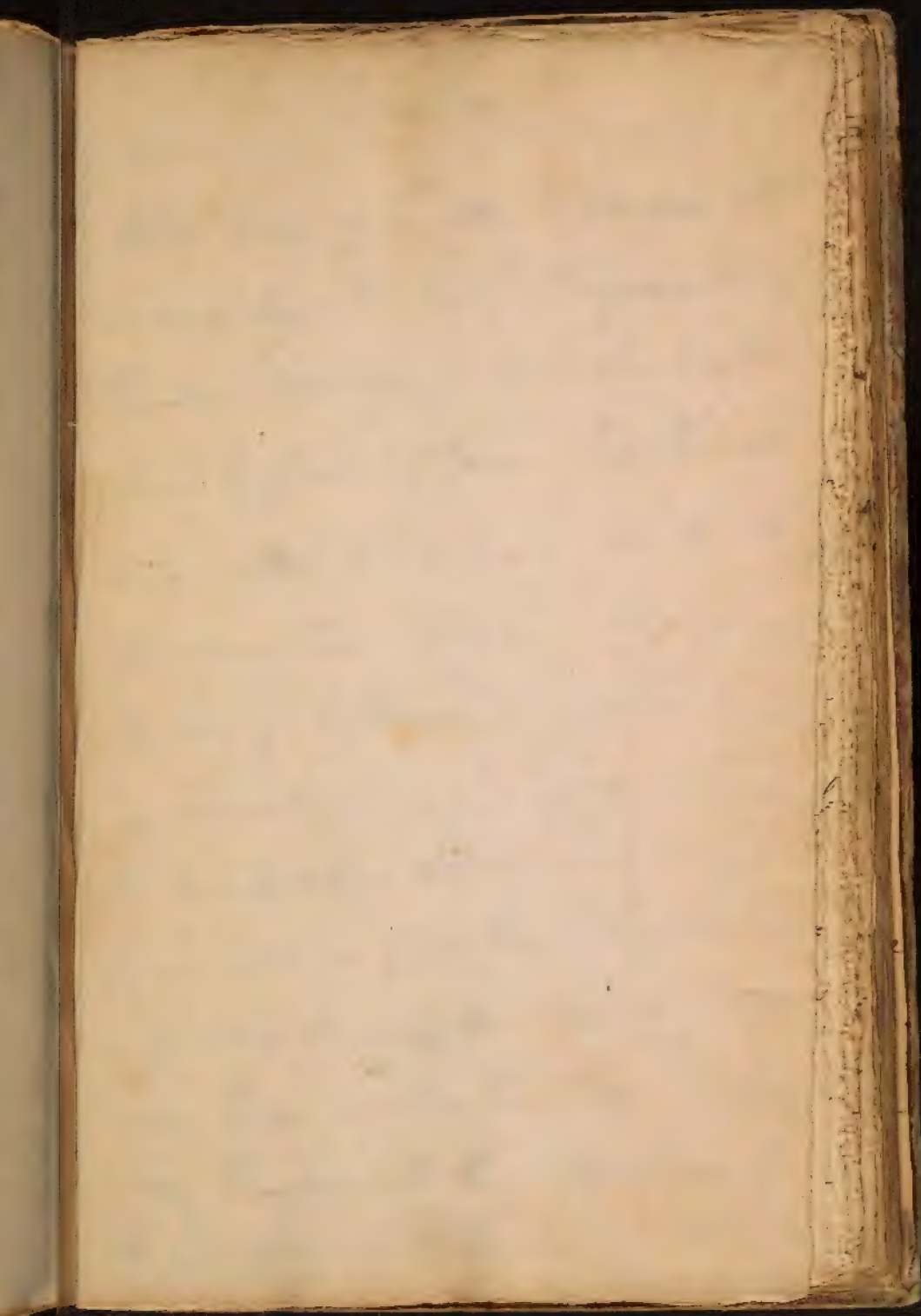










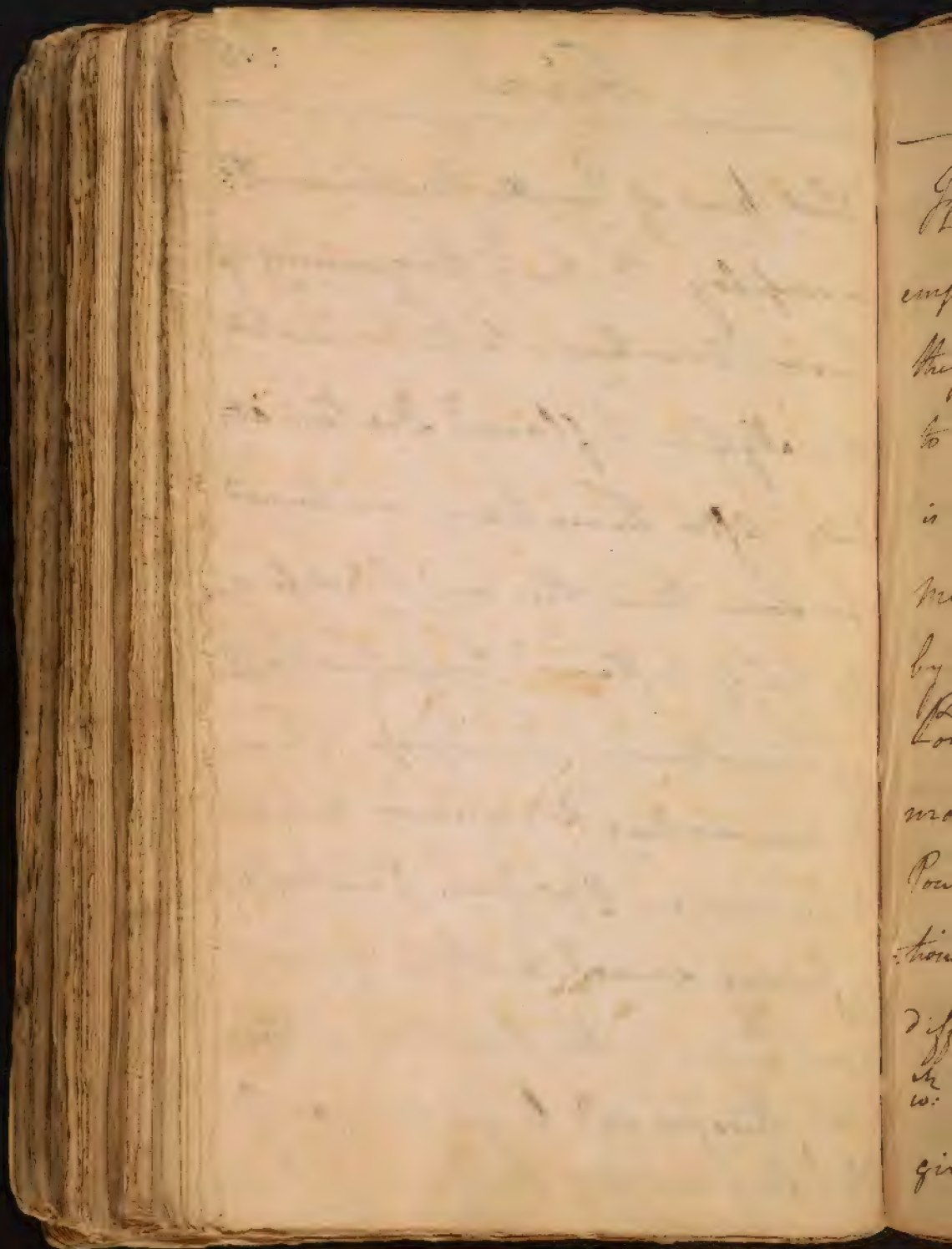




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What kind of Emmetic Medicines sh<sup>d</sup>.  
 we employ? In  $\frac{2}{y}$  Beginning of  
 Fevers vomiting is to be promoted  
 especially if no Inflamm: Diarrhoea etc  
 attends. After Fevers have continued  
 for some time they are less safe upon  
 the Aus: of Inflamm: Congestions happe-  
 ning sometimes in  $\frac{2}{y}$  progress of Fevers.  
 the nauseating Medicines only are  
 to be used in these Cases. I am happy  
 in finding several Authors of Credit  
 agree w<sup>th</sup> me in this Practice. vomit-  
 ing therefore sh<sup>d</sup>. be continued only  
 to  $\frac{2}{y}$  Beginning of Fevers.





Ipecacuanha is  $\frac{c}{7}$  medicine usually  
 employs to excite vomiting. But  
 the stimulus of this is often too weak  
 to promote a sweat. the  $\frac{c}{7}$  Imitis  
 is preferable to it. the use of this  
 medicine was first suggested  
 by the Introduction of James'  
Powder. the  $\frac{c}{7}$  Imitis is a more  
 manageable medicine than James'  
 Powder, or any of the Other prepara-  
 tions of Antimony. It has been given  
 differently by different Practitioners  
 the  $\frac{c}{7}$  is  $\frac{c}{7}$  Reason why it is sometimes  
 given <sup>the</sup> wout success. we sh<sup>d</sup>. always



The first of the month of January  
I received from you a copy of  
the letter which you had written  
to me on the 1st of the month  
of December last. I was  
glad to hear from you  
and to see that you were  
well. I am well at present  
and hope these few lines  
will find you the same.  
I have not much news to  
write at present. I am  
very busy with my work  
and have not time to  
write more than a few  
lines. I am, however,  
very anxious to hear from  
you again. I am, dear  
friend, very truly,  
your affectionate friend,  
John Smith

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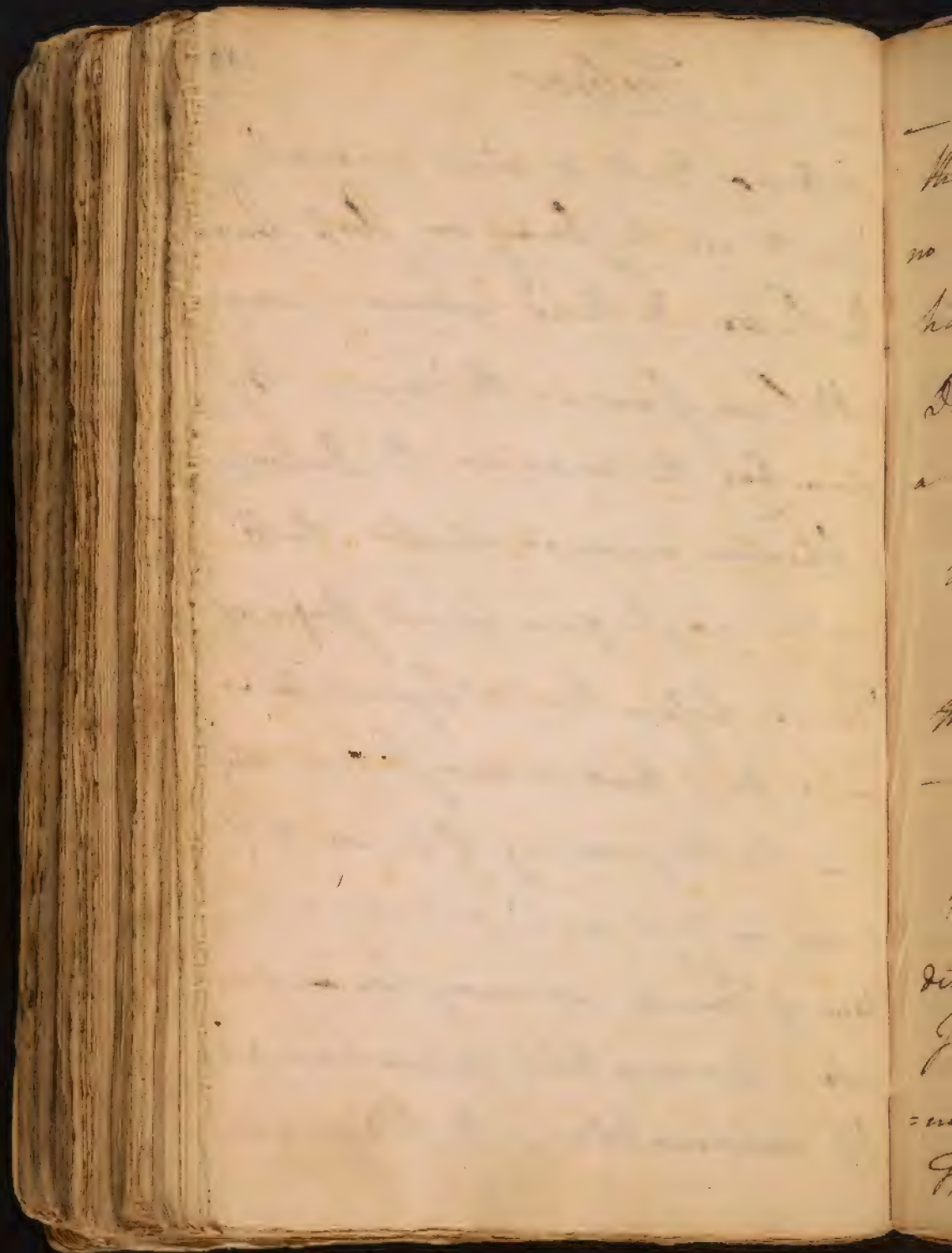
give it just before the Exacerbation  
of Fevers in such Doses as to ex-  
cite a nausea without a vomiting.  
if it sh<sup>d</sup>. bring on a puking Jalap  
supress it by giving us warm water.  
- the Effects of this Remedy are in  
some measure Obviated by promoting  
a vomiting. the more severe y<sup>e</sup>  
nausea the more successful y<sup>e</sup>  
medicine Operates. When y<sup>e</sup> French  
paper into y<sup>e</sup> Gutta it always produ-  
ces some Evacuation that proves of  
use more especially sweating. By  
this Management I have often  
procured a Termination of Fever



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at Once but its most general  
Effects are to bring on sleep - lower  
the Pulse - & thus induce consi-  
derable Remissions in the Fever. By  
repeating the medicine the Distemper  
is likewise rendered shorter. The  
Linctus may be given in all stages of  
Fever before Mortal Symptoms  
come on, but it does service chief-  
ly in the Beginning of Fevers & if  
it does no good on <sup>2</sup> first two or three  
days of Fever we may lay it a-  
side. Nauseating Medicines are  
less serviceable in the Phlegmatic





than in those Fevers where there is  
no Inflammatory Diathesis. However I  
have found it useful in Inflamm.  
Disorders. I would recommend  
a Trial of them to you in such Cases.

We come now to treat of external  
Medicines <sup>or</sup> we are used to promote  
the excited state of the Person <sup>primarily</sup>  
— these are Blisters & Warm Bathing

Blisters - most of Practitioners  
disagree about these Remedies.  
I shall not discuss the various Op-  
inions entertained concerning them.  
They stimulate & excite a



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# Febris

211

considerable Inflammation, but this  
is topical & does not extend to the  
whole System & therefore frequently  
produces no quickness of Pulse unless  
in Persons of very delicate Habits  
or those who are subject to a phlog-  
istic Diathesis. But <sup>even</sup> in these Cases <sup>the</sup>  $\frac{2}{7}$   
advantage obtained by the Vaccination  
amply compensates for any Stimula-  
ting powers they exert. We cannot  
rely for the success of Bleisters in <sup>cases</sup>  
from these Stimulus. They operate  
chiefly on the vessels on the surface of  
the Body. the Pain is a continued



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membrane & any stimulus to one part is easily communicated to the whole. The Effects likewise procured by Blisters tend greatly to cure Fevers. - In the Beginning

of Fevers we sh<sup>d</sup>. be cautious in using Blisters, Altho' I think we are apt to run to an extreme in this Rule. in all Fevers where the sedative power prevail, Blisters are more useful than in those where the stimulatory prevail.

Dr. Huxham forbids them in Inflam<sup>n</sup>.

& putrid Fevers. But I think they

may always <sup>be</sup> used <sup>to</sup> Advantage in



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## Febres

213

all Inflam<sup>y</sup> Diseases when they  
can be applied near to the seat of  
Inflammation. D. Kaen supposes  
the stimulus of blisters to be very gene-  
ral, altho he acknowledges at the same  
time that they diminish the heat  
of the Body, & approves of their  
being applied in topical Inflam-  
mations. Dr. Pingle has confirmed  
the usefulness of this Practice in his  
Diseases of the Army. Dr. Lind recom-  
mends blisters almost universally  
& he is an Author of great credit  
& veracity. He used them w<sup>th</sup> the



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utmost success in all Fevers from  
Contagion. See the remarkable Cur.  
of this success in his Treatise on  
Fever, & ~~Contagion~~ Infection. Some suppose  
Cantharides dissolve the blood & are  
therefore hurtful in putrid Diarr.  
-ses, but this I deny, for  $\frac{1}{2}$  Quantity  
of Cantharides taken into ~~the~~ the  
Blood cannot be equal to  $\frac{1}{2}$  Effects  
produced upon it. Besides  $\frac{1}{2}$  Experience  
of Lind - Sturm & Riverius all  
confirm their ~~usefulness~~ <sup>usefulness</sup>. great Care  
sh<sup>d</sup>. be taken to avoid Stranguries in  
Fever, & this is to be done by not



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suffering the blisters to be on too long. we sh<sup>d</sup>. likewise be careful to avoid giving the Patient any pain in dressing the blisters.

The best place of applying blisters is to the head & back, from Inflammation being so frequently seated more or less in those places. They are not so useful when applied to <sup>the</sup> lower extremities altho' the vessels appear to want to be excited there. instead of applying them to the Ankle I think it would be best always to apply them to the Thighs. —



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This leads me to speak of  
Synapisms <sup>in</sup> w: are applied always  
to the Feet. they may be used where  
Volunters are forbid by Phlegmatics  
or other circumstances. when we  
want a sudden stimulus nothing  
but Mustard = fed sh? he applied,  
but this must not be continued above  
an hour or two or it will excite the  
most exquisite pain.

To restore the Determination to  
the Surface of the body Viother Rem-  
edy of great use in warm. Boathing  
- This was used greatly among the



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ancients, but in modern times it  
appears to be laid aside. Dr. Gilchrist  
of this country has recalled the  
attention of Physicians to it. see the  
Medical Mag. & his treatise on sea  
voyages. The Practice of Grant is at-  
tended w. many Difficulties, upon this  
see: Fomentations of the lower Extre-  
mities have been substituted in its room.  
- This has Advantages above <sup>&</sup> warm  
bath. It excites a more universal stimu-  
lus. It disturbs the Patient less, & may  
be continued much longer even two  
or 3 hours. These Fomentations are



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highly useful in  $\frac{2}{3}$  advanced state  
of Fevers when the Phlogistic Diathesis  
goes on, or when the Action of  
Insorium is resisted <sup>as</sup> we know  
from the Delirium & Jaupon which  
Attends. the Heat of these Combinations  
takes off the Atonia & Spasms in the  
small Arteries & thus often produ-  
ces Sleep & Remissions of the Fever.  
They sometimes bring on an entire  
Solution of the Fever. ~~but~~ When they  
procure sleep they seldom fail of curing  
Fever in a little time.



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But in order to excite the vigour  
of the System the Action of the  
Sanguiferous System must like  
be excited when it is too low or too  
weak. The Truss of the hot Febr we  
said depends upon  $\frac{2}{3}$  Presence of the  
Phlogistic Diathesis; a want of a  
due Degree of hot Febr is attended w. a  
Loss of Force in the Arterial System.  
This occurs chiefly in putrid Disor-  
ders. The Medicines proper to excite  
the Action of the Arteries are  
Cold & tonic Remedies.



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Cold tends to excite the vessels. we see it bring on Inflammations. nay we know it to be the chief Cause of the Phlogistic Diathesis. It is therefore highly useful in Nervous and putrid Diseases. we apply it in two ways 1<sup>st</sup> by cold Drinks. or 2<sup>d</sup> by cold Air or cold water applied to <sup>the</sup> Body.

Nature leads to cold Drinks by Instinct in all Fevers. warm Drinks ~~are~~ were introduced only by Reflection and Art. Authors ~~too~~ are divided in their Opinions concerning the use of cold



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# Febriles

Drinks. I shall not enter into their Disputes, but briefly point out <sup>2</sup> Cases in w<sup>ch</sup> they are hurtful & useful.

1<sup>st</sup> Cold Drinks are hurtful in all Cases of Inflamm<sup>n</sup>: Fevers, or such Fevers as occur in cold seasons or cold climates.

2<sup>nd</sup> Cold Drinks should be employed with Caution in the Beginning of all Fevers.

3<sup>rd</sup> They are highly useful in all Nervous & putrid Fevers especially in their advanced State.

4<sup>th</sup> In all Autumnal Fevers or the



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Fewers of warm seasons & warm C:  
-mates they are useful.

3.<sup>d</sup> The Ancients used them about the  
time of the Exacerbation of Fevers. see  
Somner upon this Practice. The Italians  
have greedily imitated the Practice  
of the Ancients in this Respect & even  
use Ice to cool their water.

cold Applications to the body ~~is~~  
likewise an ancient Practice, but  
has been laid aside among the Moderns.  
Sir John Puzos has many Instances in  
his History of cold bathing of the



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happy Effects; followed the accidental or voluntary plunging the body in cold water. But it is hard to reduce this Remedy to any Rules of Art. several German & French Authors speak highly of the Advantages of Immersing in cold water in Fevers, but I cannot pretend to speak confidently of it. I think however it may be ranked among the Remedies that are to be used to excite the Action of the extreme vessels, and to promote the tonic power of the whole System. It has been found



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chiefly useful in the Putridal Fever.

We come now to speak of  $\frac{2}{7}$  tonic  
Medicines. These are very numerous  
such as Astringents fossil substances  
vegetable matters more especially the Peru-  
vian Bark. I shall confine myself only  
to the Bark <sup>is</sup>  $\frac{2}{7}$  most efficacious  
of any vegetable or fossil Astringent  
we are acquainted with. Some suppose  
that it Operates Specifically, but I shall  
endeavour to explain its Operation in  
another way. Fever we know comes on  
<sup>the</sup> w: manifest signs of Debility & Atonia.  
now the Bark acts by Obviating this



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Atonia. Other Astringent Substances  
 produce the same Effects. if it is given  
 while the Force of the System is protor:  
 -naturally encreased or during the Fever  
 it does mischief. It is hurtful likewise  
 in all Inflam<sup>r</sup>: Fevers, ~~but~~ <sup>but</sup> does  
 service in those Fevers in w<sup>ch</sup> the sedative  
 powers prevail such as  $\frac{2}{3}$  putrid  
 petechial & fail Fevers. See numerous  
 Examples of this in Dr. Haen's works.  
 It may used therefore in the advanced state  
 of almost all continual Fevers.

The Bark has been found highly useful



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## Febriles

in Gangrenes. Putrefactions in<sup>e</sup>  
 Animal Body can never take place  
 but in Cases of an Atonia of the  
 nerves. now the Bark by obviating  
 this Atonia removes the Gangrene  
 or beginning Putrefaction. the Effu-  
 sions w<sup>h</sup> terminate in Pus are always  
 attended w<sup>th</sup> more or less of an Atonia of  
 the Vessels. By giving Bark we check y<sup>e</sup>  
 Effusions of red Globules & Obtain an  
 Effusion only of that part of y<sup>e</sup> blood  
 from w<sup>h</sup> Pus is formed. The Bark there-  
 fore may be exhibited in all those

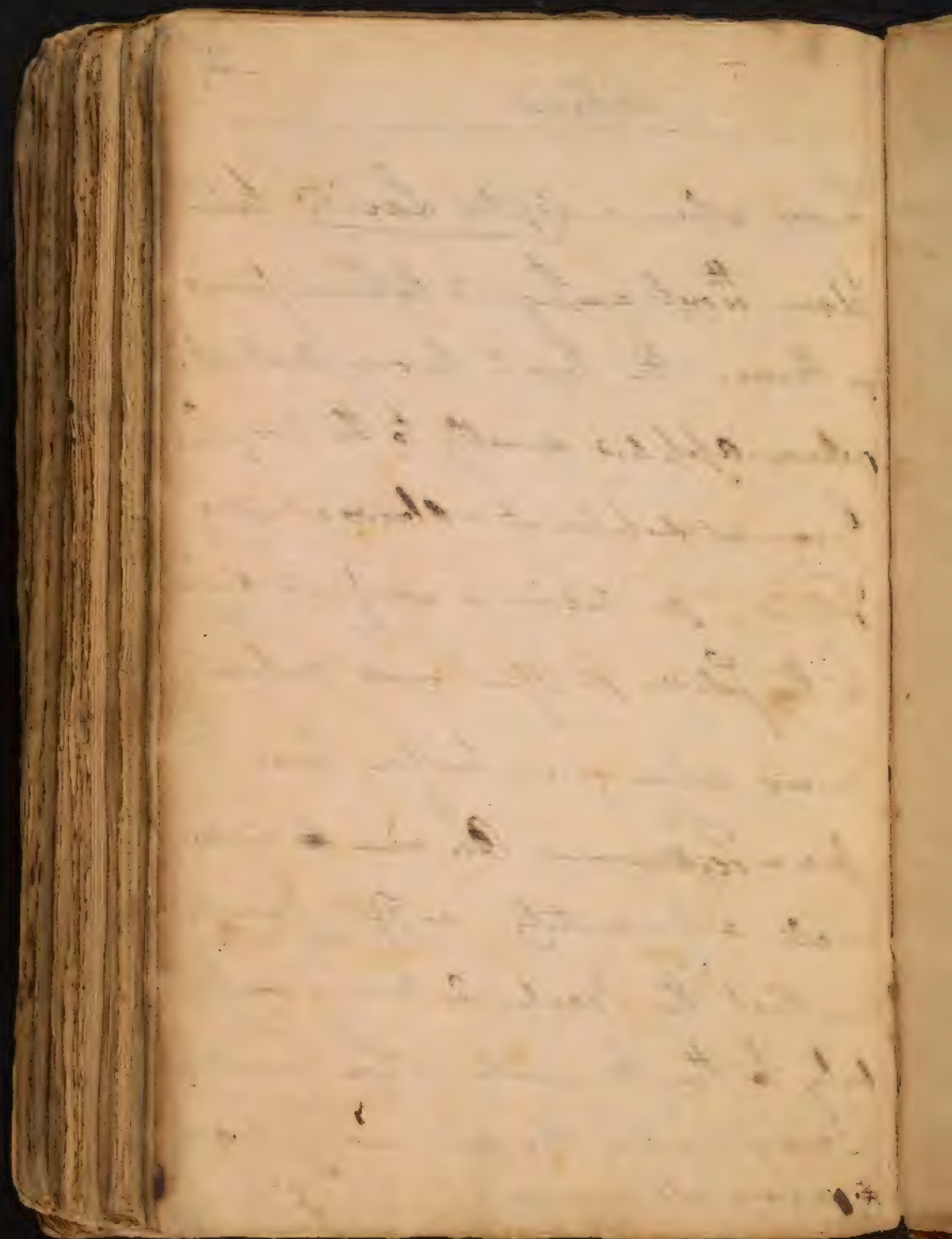


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Fewers when a Septic Laxity takes  
 place wout <sup>th</sup> any Regard to Remissions  
 in them. The bark proves Antiseptic  
 when applied directly to the Body, but  
 I can not suppose it is absorbed into <sup>e</sup> y.  
 Fluids. Its Action is confined only  
 to the Solids. It often cures Interm.  
 Fevers when given half an hour be-  
 fore a Pitt comes On even ~~to~~ in so  
 small a Quantity as ℥ss. I conclude  
 then that the Bark's Action is confined  
 only to the Stomach whose Connection  
<sup>th</sup> w: every part of the Nervous System  
 you are all acquainted with.





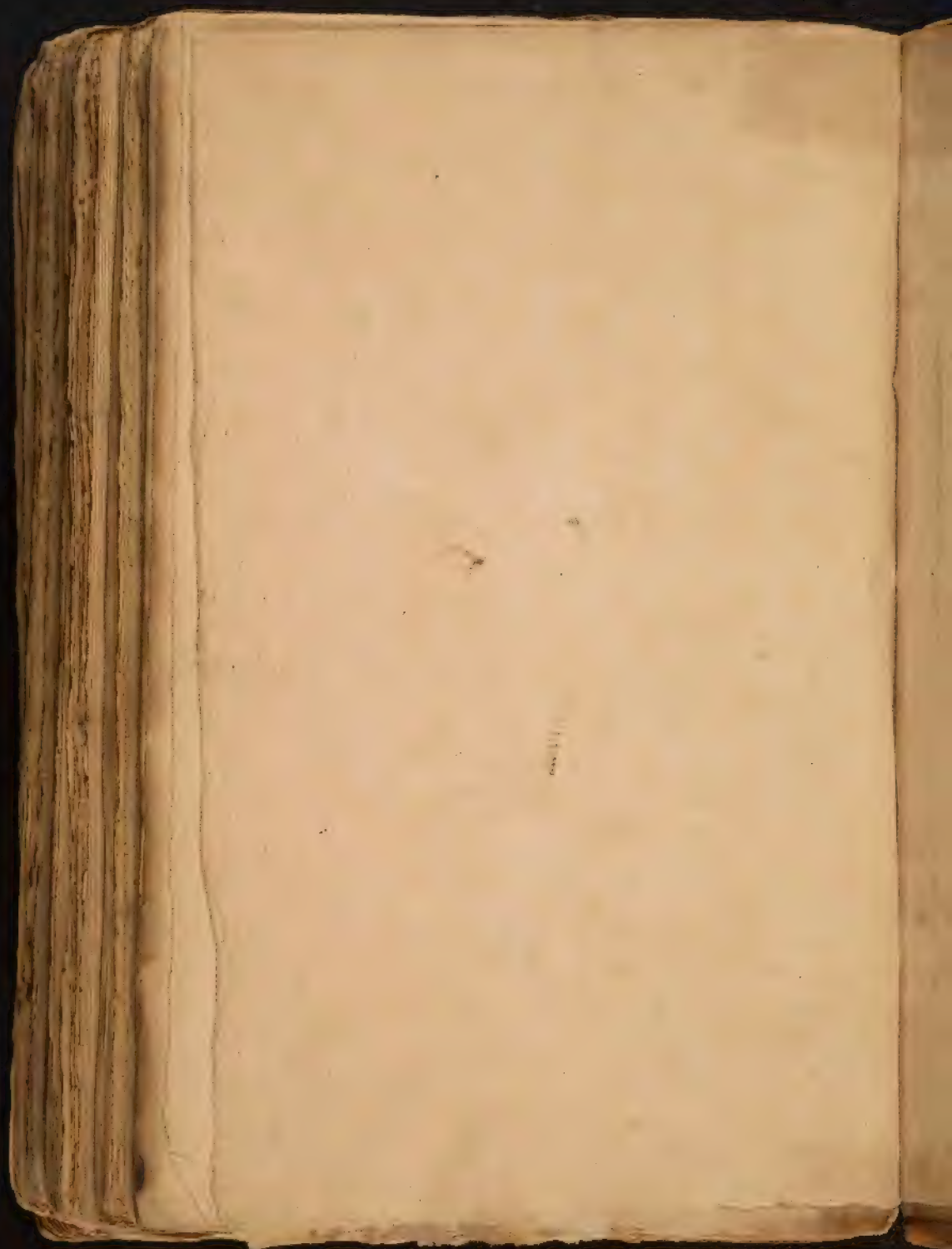






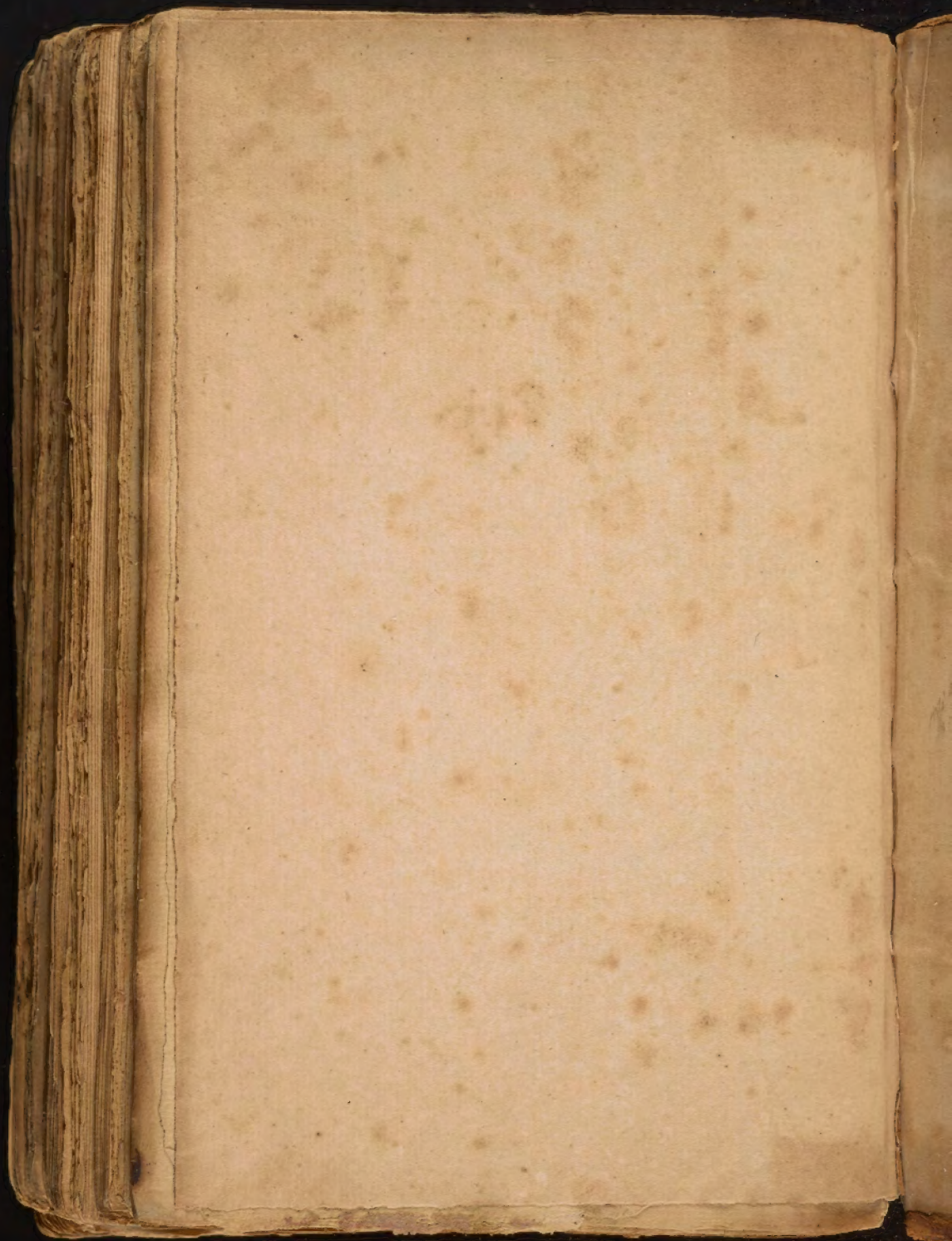












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